

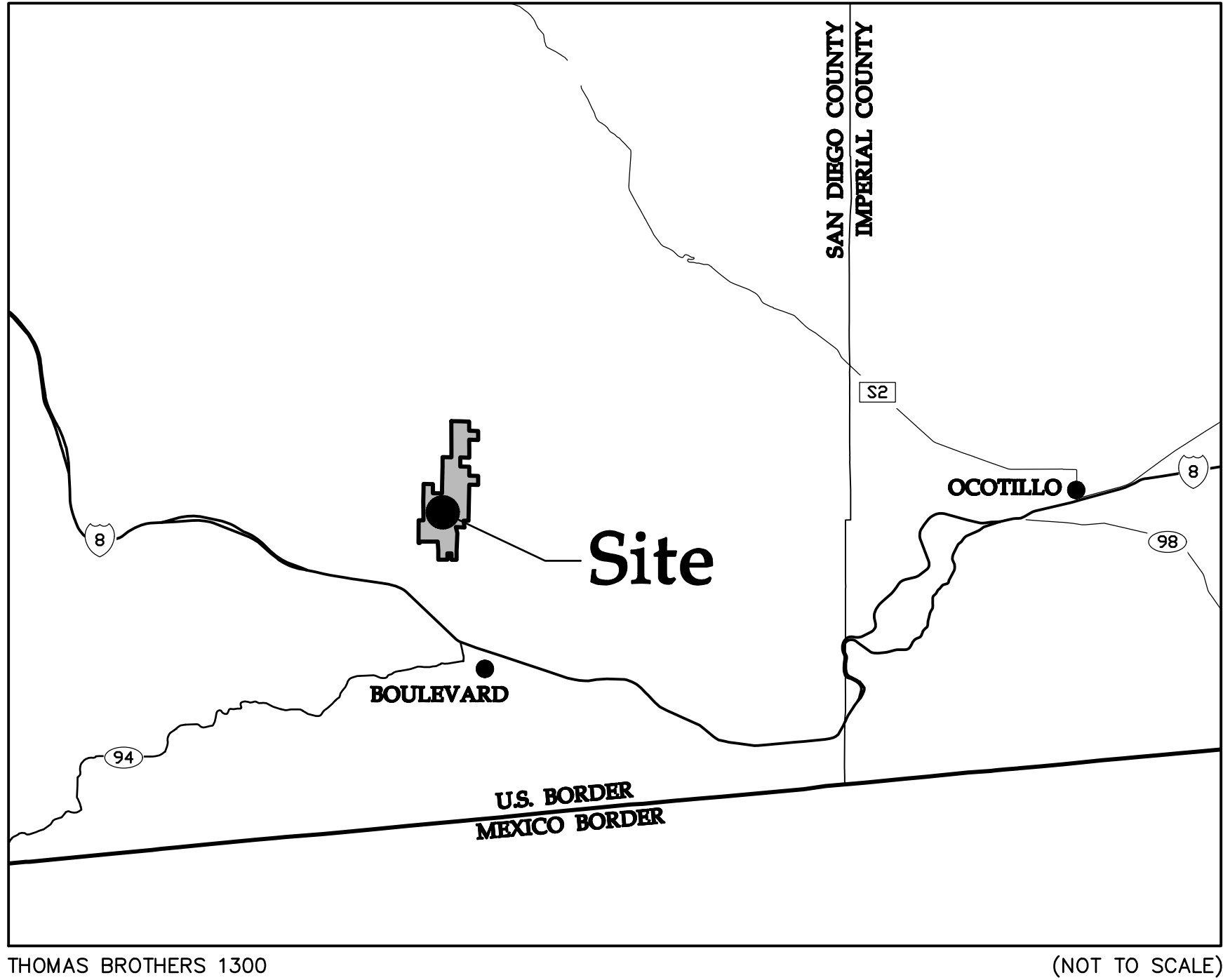
# Plot Plans

for

## Boulder Brush Facilities

(Single Phase Project)

Vicinity Map



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24	Fire Water Tank Details
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26	Control Building Details
27	Control Building Details

**Project Location:**  
Ribbonwood Road  
Boulevard CA 91905

**Developer:**  
Boulder Brush, LLC  
11455 El Camino Real, Suite 160  
San Diego CA 92130

**NOTICE:**

THE SUBJECT PROPERTY CONTAINS WETLANDS, A LAKE, A STREAM, AND/OR WATERS OF THE U.S. AND/OR STATE WHICH MAY BE SUBJECT TO REGULATION BY STATE AND/OR FEDERAL AGENCIES, INCLUDING, BUT NOT LIMITED TO, THE REGIONAL WATER QUALITY CONTROL BOARD, U.S. ARMY CORPS OF ENGINEERS AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE. IT IS THE APPLICANT'S RESPONSIBILITY TO CONSULT WITH EACH AGENCY TO DETERMINE IF A PERMIT, AGREEMENT OR OTHER APPROVAL IS REQUIRED AND TO OBTAIN ALL NECESSARY PERMITS, AGREEMENTS OR APPROVALS BEFORE COMMENCING ANY ACTIVITY WHICH COULD IMPACT THE WETLANDS, LAKE, STREAM, AND/OR WATERS OF THE U.S. ON THE SUBJECT PROPERTY. THE AGENCY CONTACT INFORMATION IS PROVIDED BELOW.

U.S. ARMY CORPS OF ENGINEERS: 915 WILSHIRE BLVD., SUITE 1101, LOS ANGELES, CA 90017; (213) 452-3333; HTTP://WWW.USACE.ARMY.MIL/  
REGIONAL WATER QUALITY CONTROL BOARD: 2375 NORTHSIDE DRIVE, SUITE 100, SAN DIEGO, CA 92108; RB9\_DREDGEFILL@WATERBOARDS.CA.GOV ; HTTP://WWW.WATERBOARDS.CA.GOV/SANDIEGO/  
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE: 3883 RUFFIN RD., SAN DIEGO, CA 92123; (858) 636-3160; ASKR5@WILDLIFE.CA.GOV HTTP://WWW.DFG.CA.GOV/

## Westwood

Phone (952) 937-5150 7699 Anagram Drive  
Fax (952) 937-5822 Eden Prairie, MN 55344  
Toll Free (888) 937-5150 westwoodps.com

Westwood Professional Services, Inc.

California License Number: 75322

**Designed:** .

**Checked:** .

**Drawn:** .

**Record Drawing by/date:**

**Revisions:**

Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

San Diego County, California

Cover

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

Sheet: 1 OF 27



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## Boulder Brush Facilities

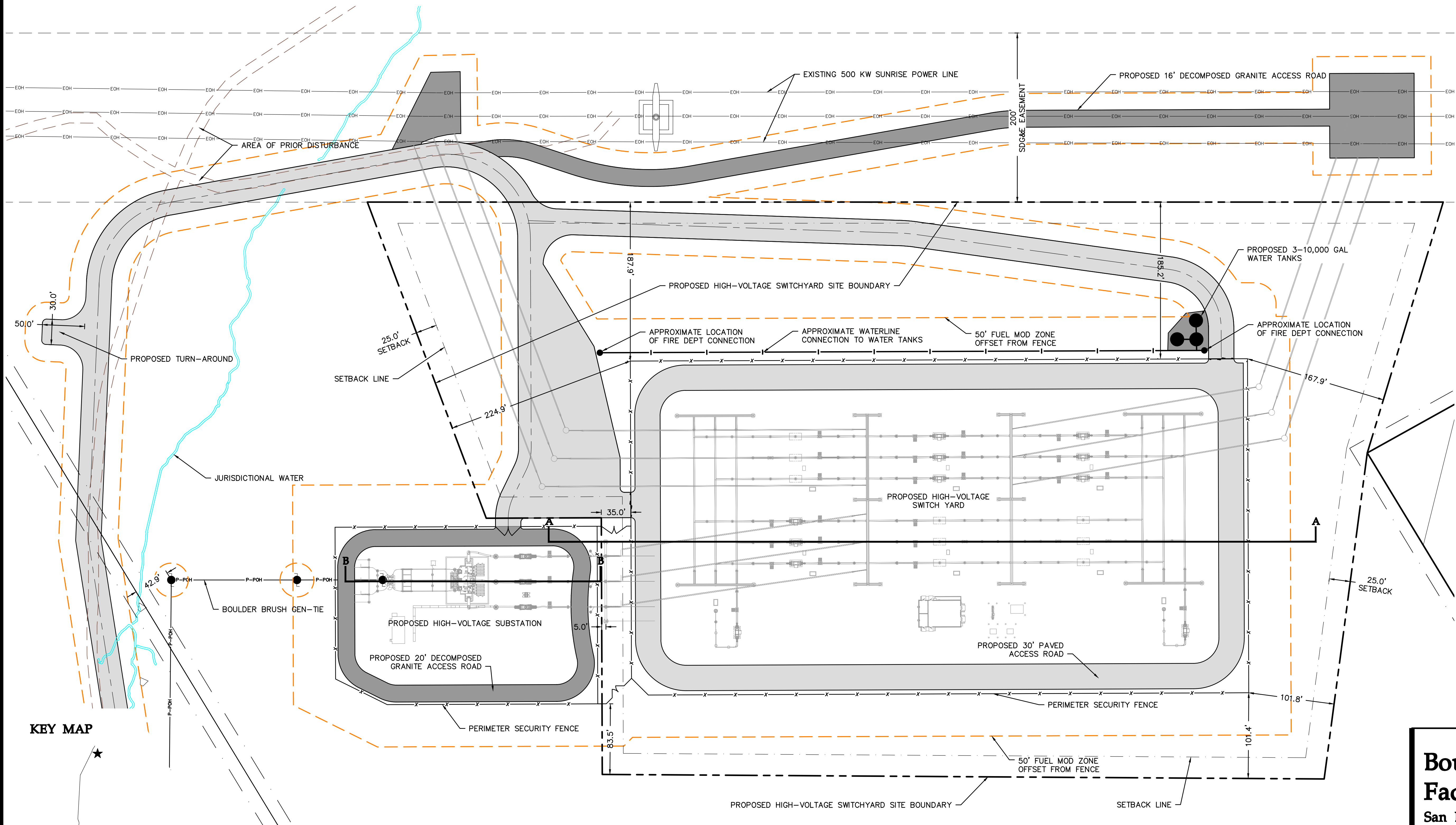
San Diego County, California

Substation and  
Switchyard Plan

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

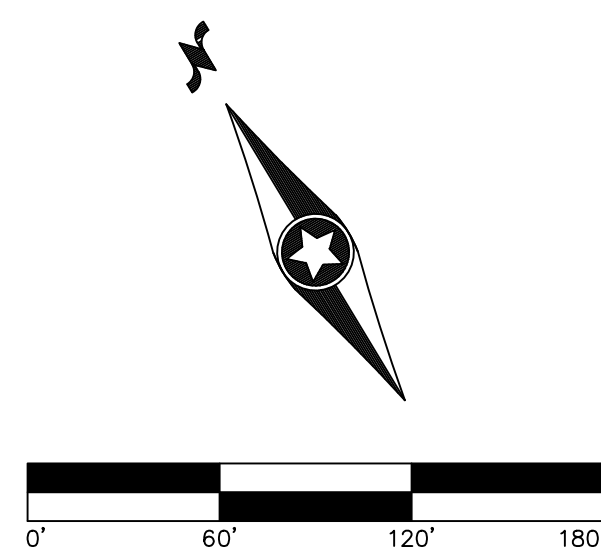
Sheet: 3 OF 27

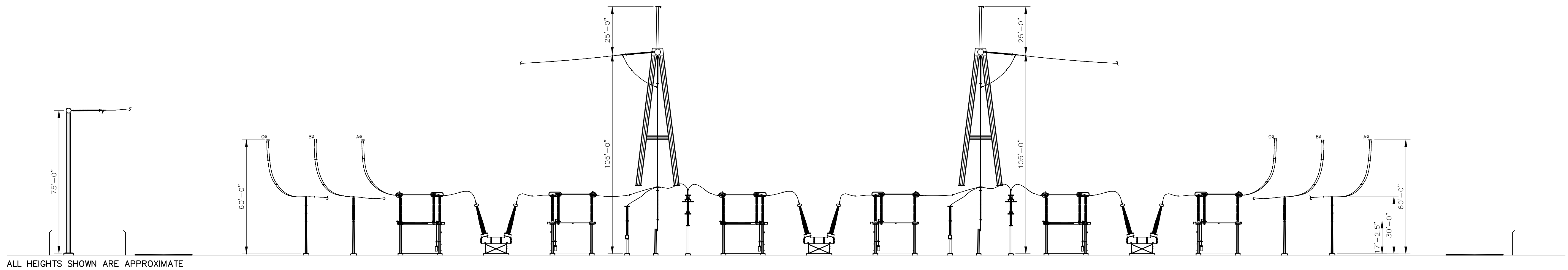


KEY MAP

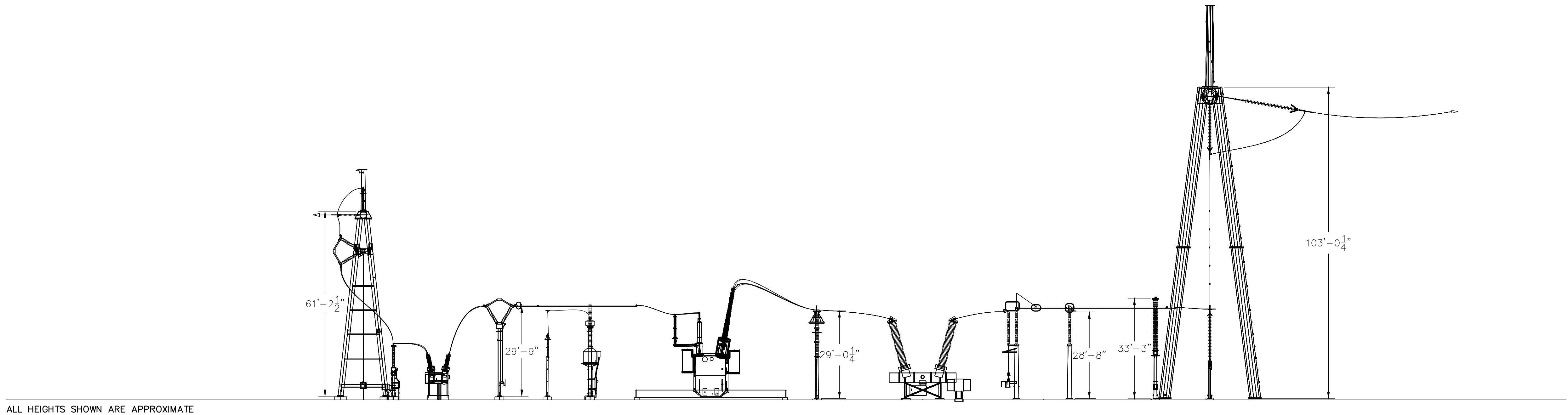
**LEGEND:**

- EXISTING FIELD DELINEATION (JURISDICTIONAL WATER)
- AREA OF PRIOR DISTURBANCE
- EXISTING OVERHEAD POWER
- PROPOSED TRANSMISSION POLE (150 MAX. HT.)
- PROPOSED FENCE LINE
- EXISTING EASEMENT
- BUILDING SETBACK
- PARCEL LINE
- SECTION LINE
- PROPOSED OVERHEAD ELECTRICAL
- PROPOSED CULVERT
- PROPOSED PAVED ACCESS ROAD
- PROPOSED DECOMPOSED GRANITE ACCESS ROAD





TYPICAL HIGH-VOLTAGE SWITCHYARD ELEVATION VIEW A-A (FACING NORTH)



TYPICAL HIGH VOLTAGE SUBSTATION ELEVATION VIEW B-B (FACING NORTH)

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## Boulder Brush Facilities

San Diego County, California

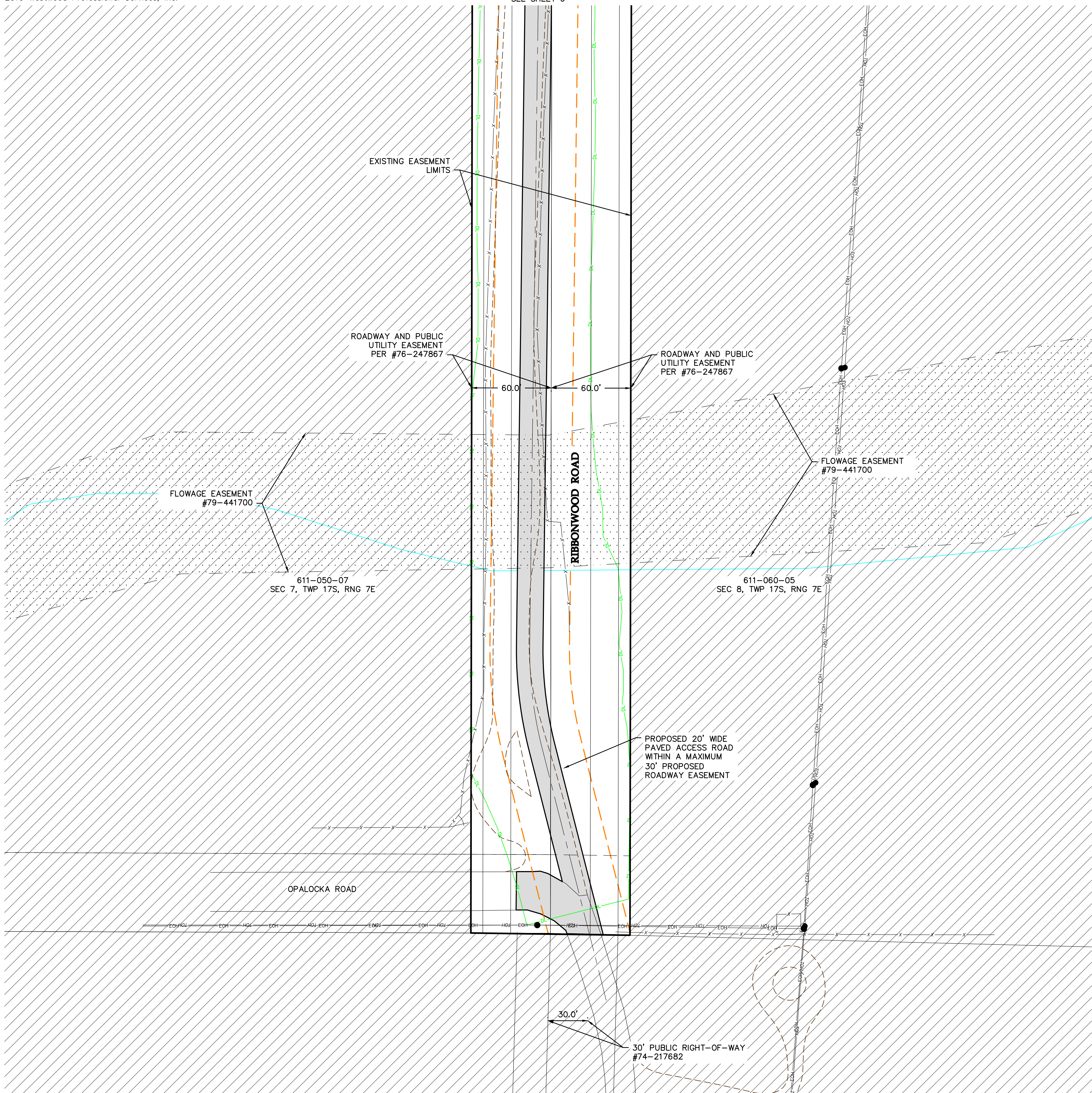
Substation and  
Switchyard Details

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

Sheet: 4 OF 27





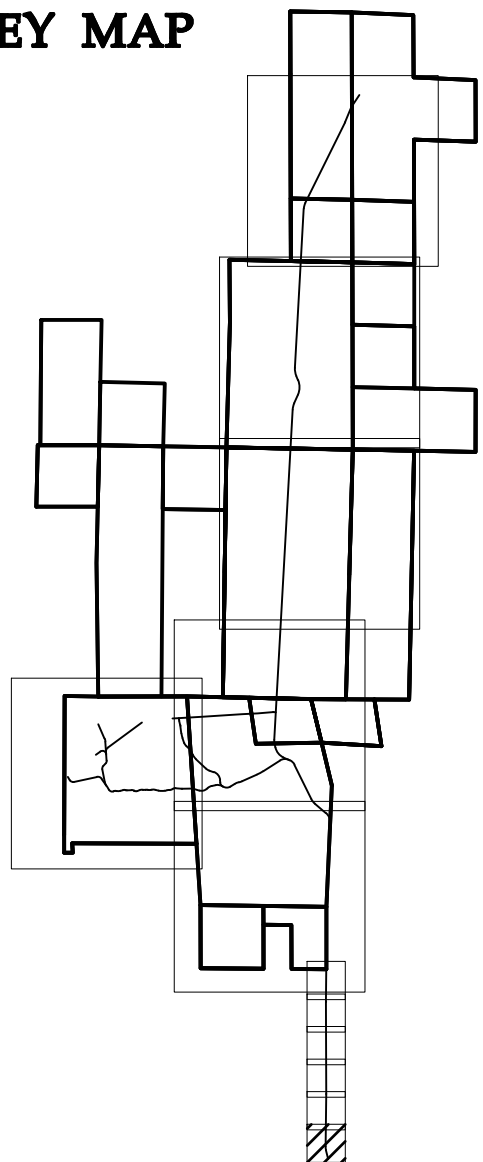
LEGEND:

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Boulder Brush  
Facilities

San Diego County, California

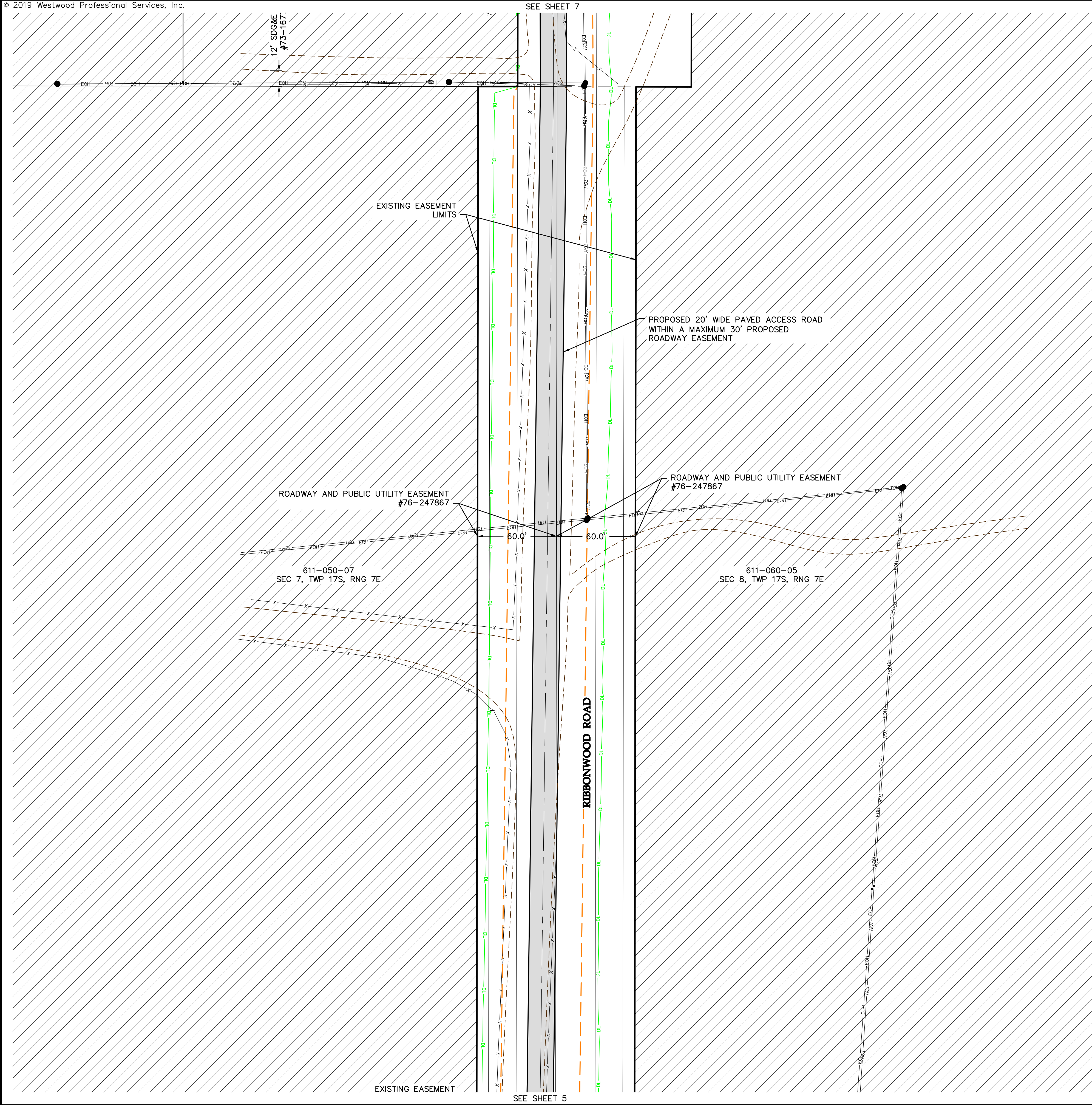
Ribbonwood Road  
Improvements

NOT FOR CONSTRUCTION

Date: 12/05/2019

Sheet: 5 OF 27





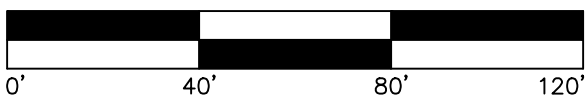
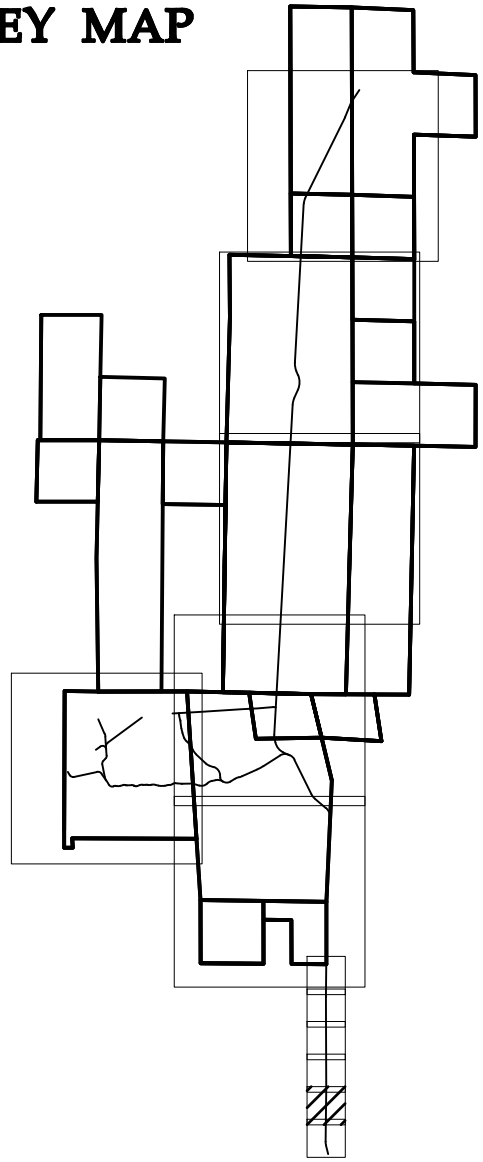
**LEGEND:**

- P-OH PROPOSED OVERHEAD ELECTRICAL
- 100-YEAR STORM INUNDATION
- EXISTING DRAINAGE PATH
- AREA OF PRIOR DISTURBANCE
- EXISTING OVERHEAD POWER
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**KEY MAP**



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Phone (952) 937-5150 7699 Anagram Drive  
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Prepared for:



11455 El Camino Real, Suite 160  
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MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

**Boulder Brush  
Facilities**

San Diego County, California

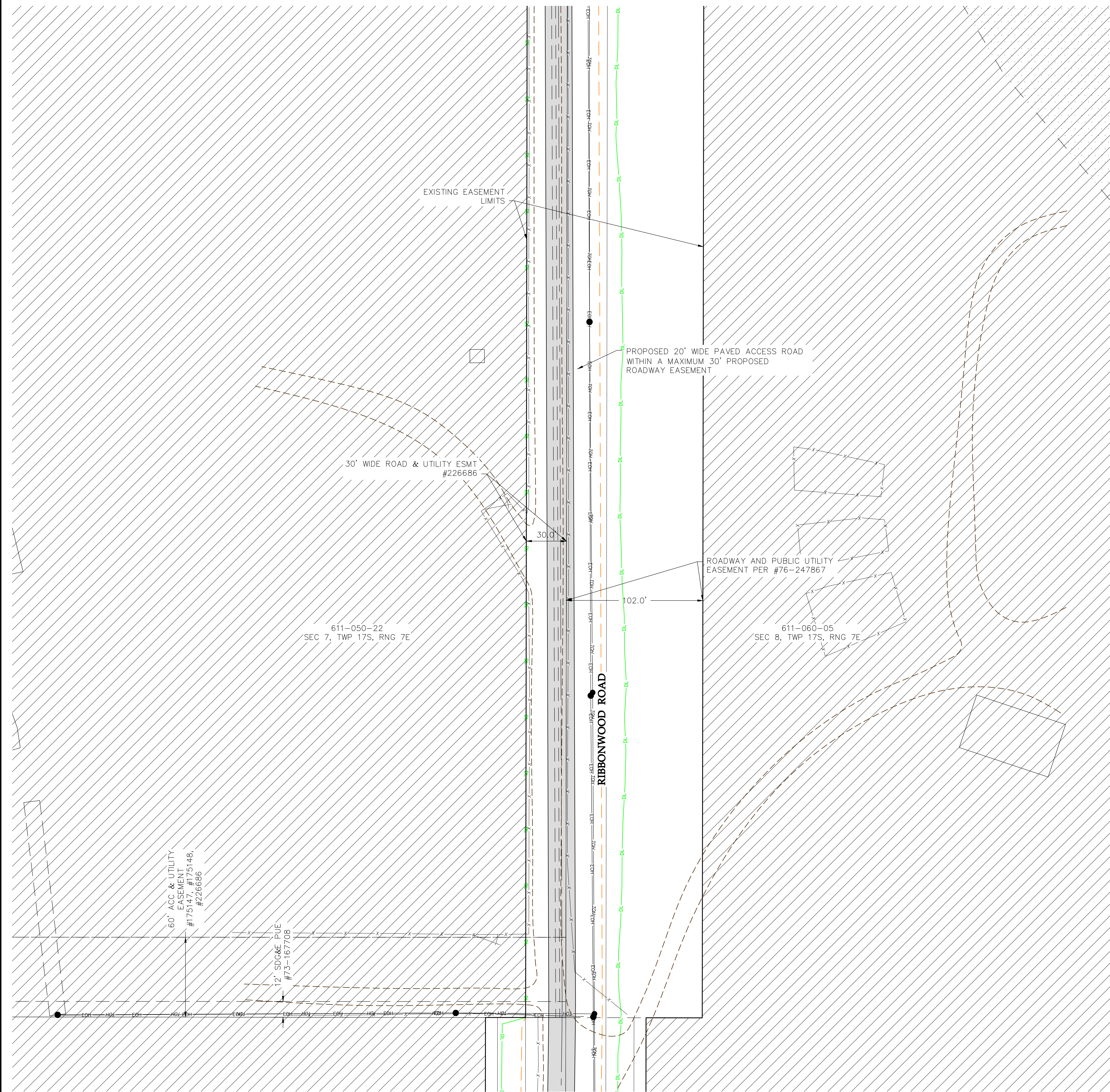
**Ribbonwood Road  
Improvements**

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

Sheet: 6 OF 27





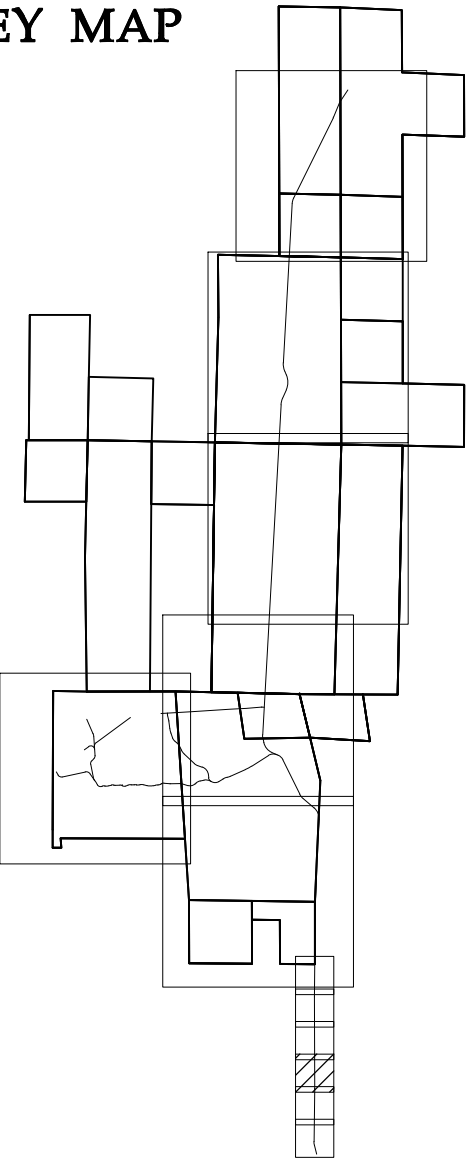
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Boulder Brush  
Facilities

San Diego County, California

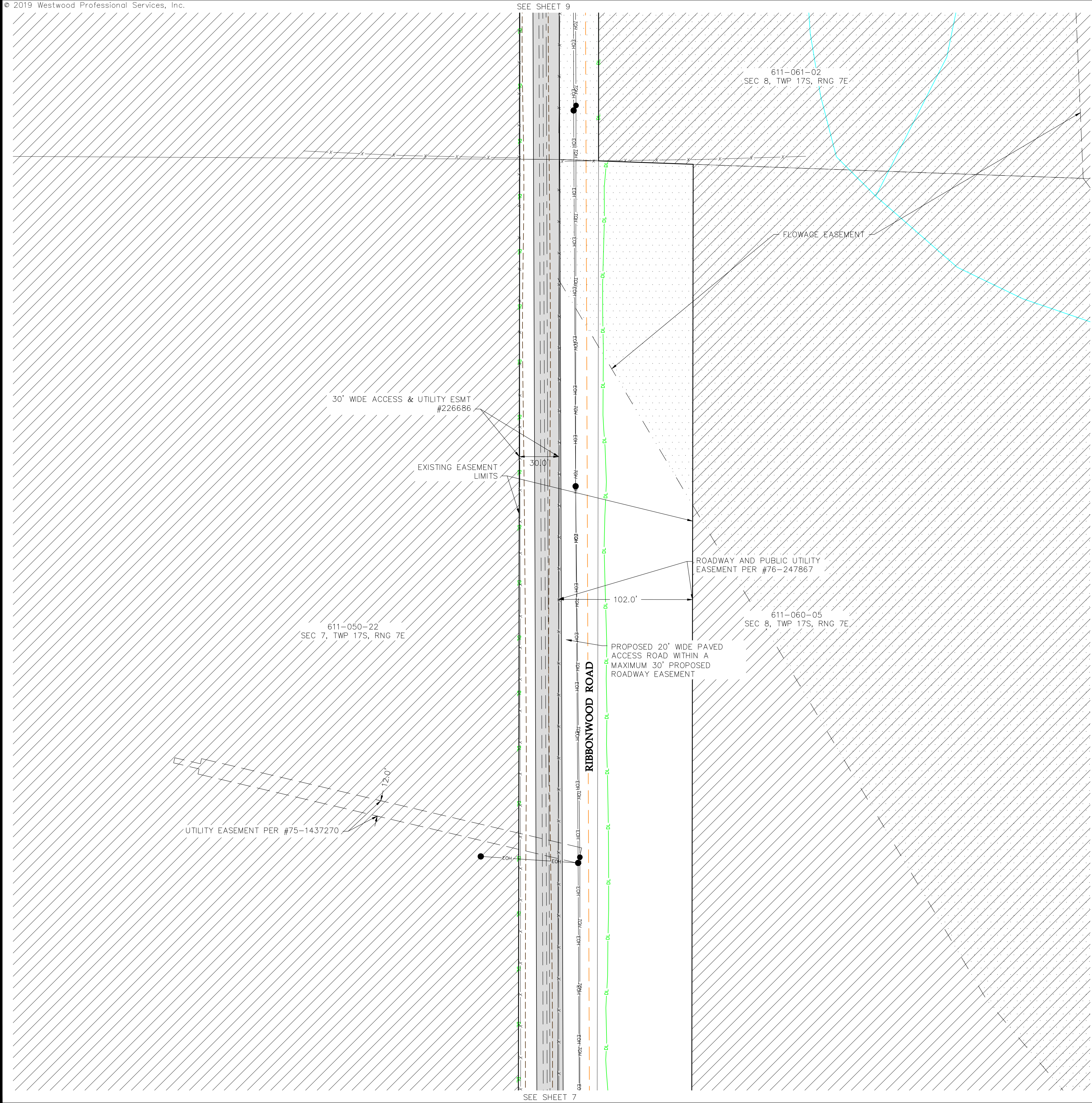
Ribbonwood Road  
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Sheet: 7 OF 27





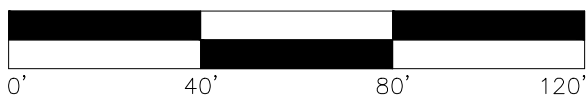
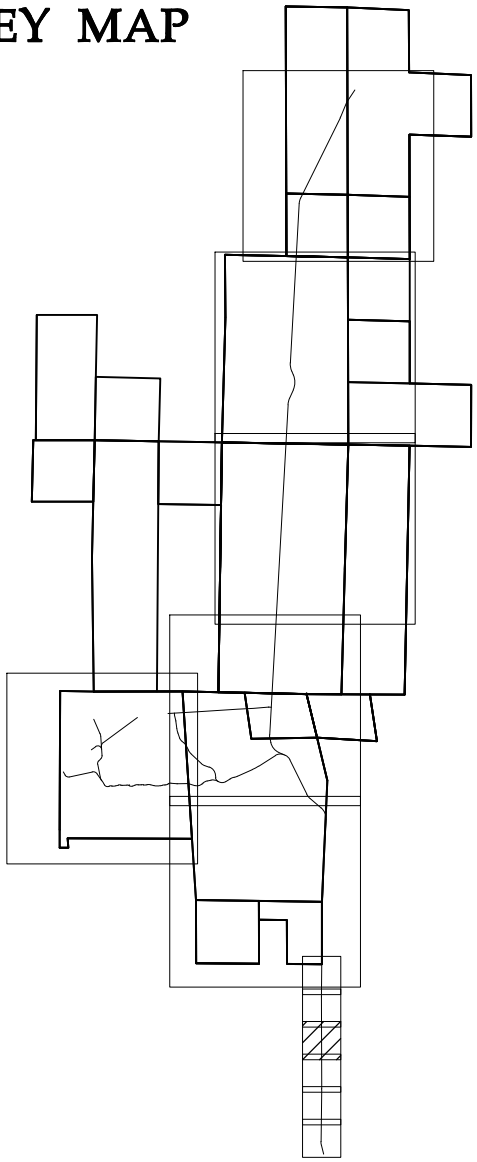
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Phone (952) 937-5150 7609 Anagram Drive  
Fax (952) 937-5822 Eden Prairie, MN 55344  
Toll Free (888) 937-5150 westwoodps.com

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Boulder Brush

Facilities

San Diego County, California

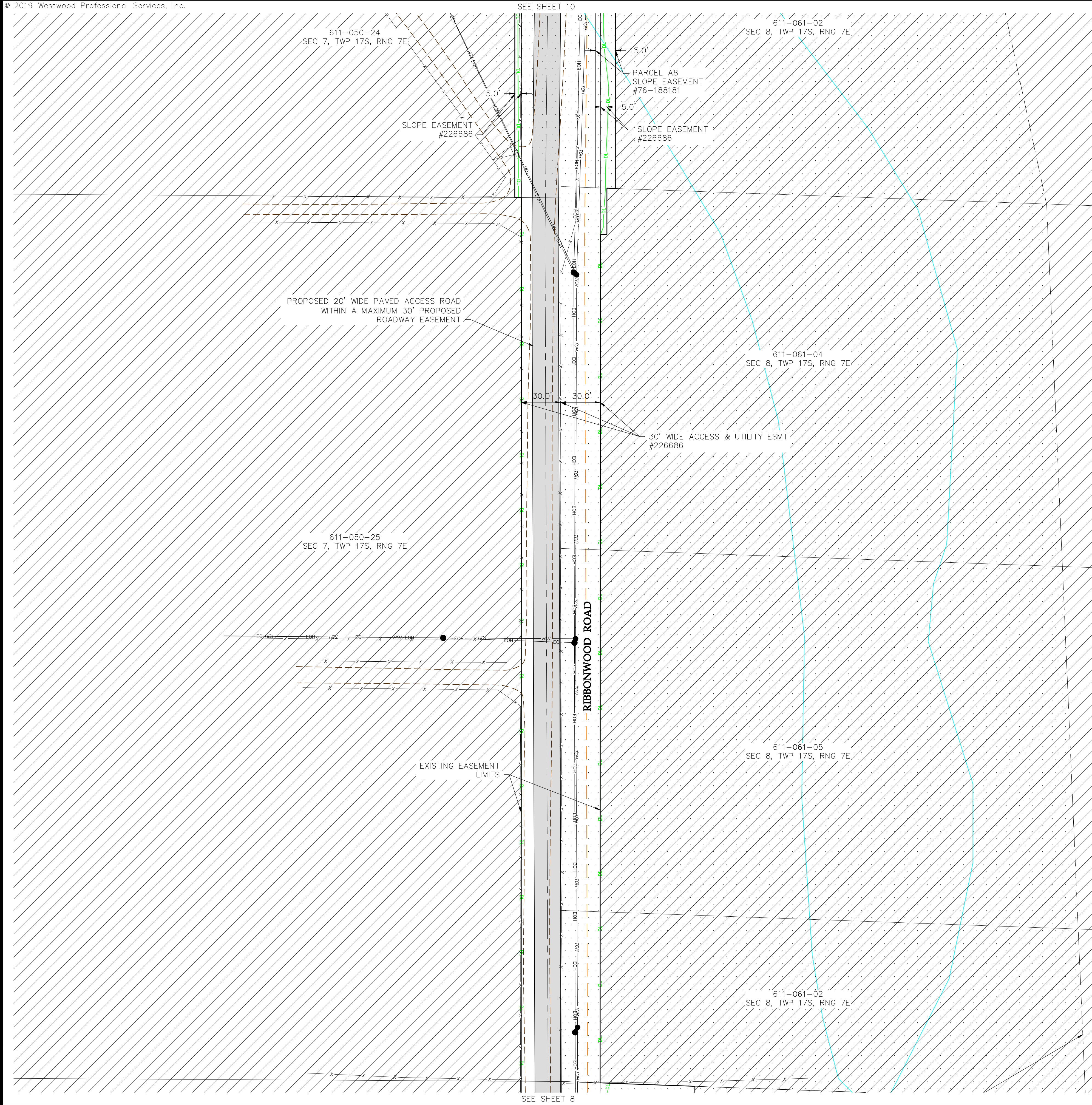
Ribbonwood Road  
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Date: 12/05/2019

Sheet: 8 OF 27





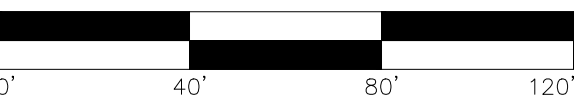
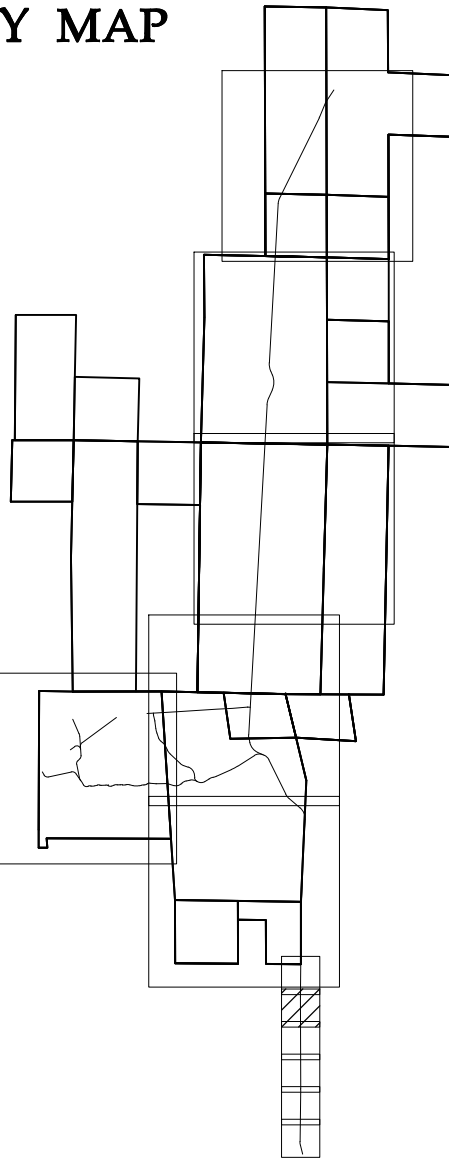
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MAJOR USE PERMIT  
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Boulder Brush  
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San Diego County, California

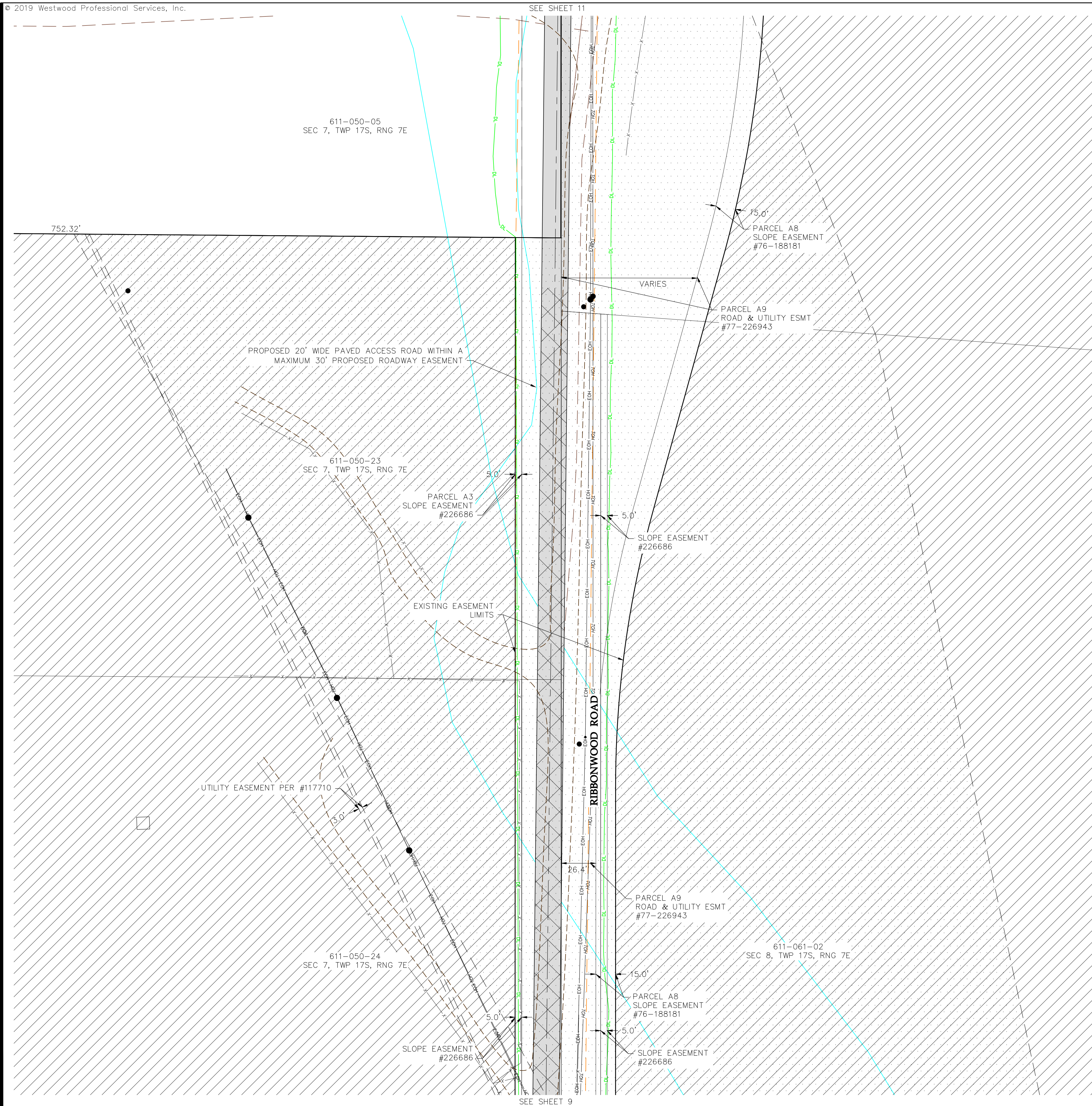
Ribbonwood Road  
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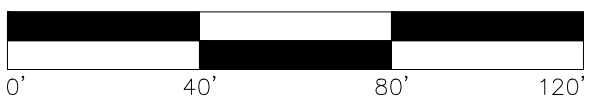
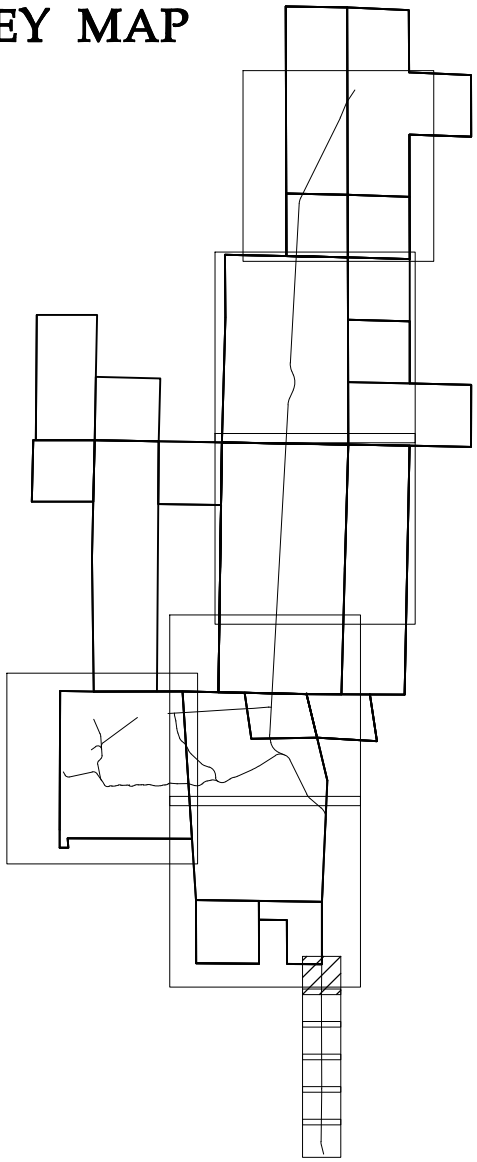
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Facilities  
San Diego County, California

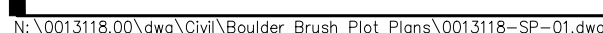
Ribbonwood Road  
Improvements

NOT FOR CONSTRUCTION

Date: 12/05/2019

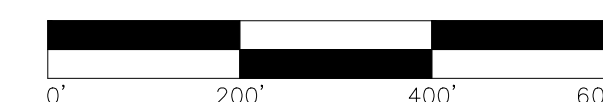
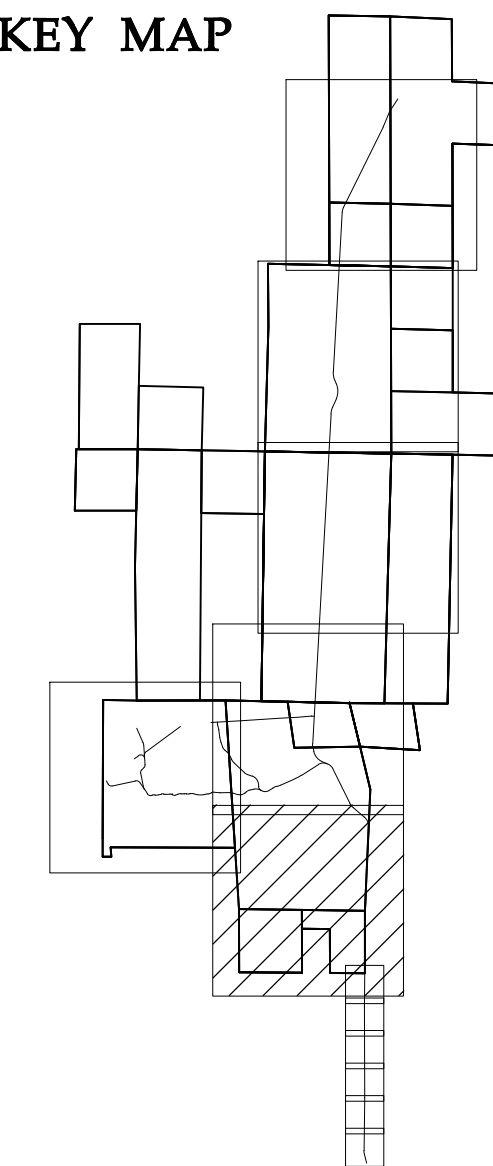
Sheet: 10 OF 27





	PROPOSED OVERHEAD ELECTRICAL
	100-YEAR STORM INUNDATION
	EXISTING DRAINAGE PATH
	AREA OF PRIOR DISTURBANCE
	EXISTING OVERHEAD POWER
	PROPOSED TRANSMISSION POLE
	EXISTING FENCE LINE
	EXISTING EASEMENT
	BUILDING SETBACK
	EXISTING PARCEL LINE
	PROPOSED PARCEL LINE
	SECTION LINE
	FUEL MOD ZONE
	DISTURBANCE LIMITS
	PROPOSED PAVED ACCESS ROAD
	PROPOSED CONCRETE FORD CROSSING
	PROPOSED DECOMPOSED GRANITE ACCESS ROAD
	OUTSIDE PROJECT'S EXISTING EASEMENT LIMITS/NOT A PART OF BOULDER BRUSH PROJECT
	PROJECT'S EXISTING EASEMENT LIMITS/BOULDER BRUSH BOUNDARY

- ## KEY MAP



California License Number: 75322

Prepared for:



MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

# Boulder Brush Facilities

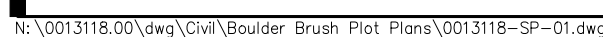
San Diego County, California

611-050-04,  
611-050-05,  
611-101-02

NOT FOR CONSTRUCTION

Date: 12/05/2019  
Sheet: 11 OF 27





NOTES:

1. ACCESS TO EXISTING RESIDENCES TO REMAIN
2. REFER TO GRADING PLANS FOR LOCATIONS OF NATURAL FEATURES SUCH AS TREES WITH OVER 6" TRUNK DIAMETER, STREAMS, ROCK OUTCROPPINGS OR FLOOD ZONES.
3. LANDOWNER SHALL PROVIDE UP TO A MAXIMUM 40' WIDE ROADWAY EASEMENT FOR THE BENEFIT OF SDG&E WITHIN THE BOULDER BRUSH BOUNDARY.
4. LANDOWNER SHALL PROVIDE UP TO A MAXIMUM 30' WIDE ROADWAY EASEMENT FOR THE BENEFIT OF SDGE FROM THE POINT THAT PUBLIC ACCESS ALONG RIBBONWOOD ROAD ENDS TO THE ENTRANCE OF THE BOULDER BRUSH BOUNDARY.



Westwood Professional Services, Inc.  
California License Number

Revisions:



MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

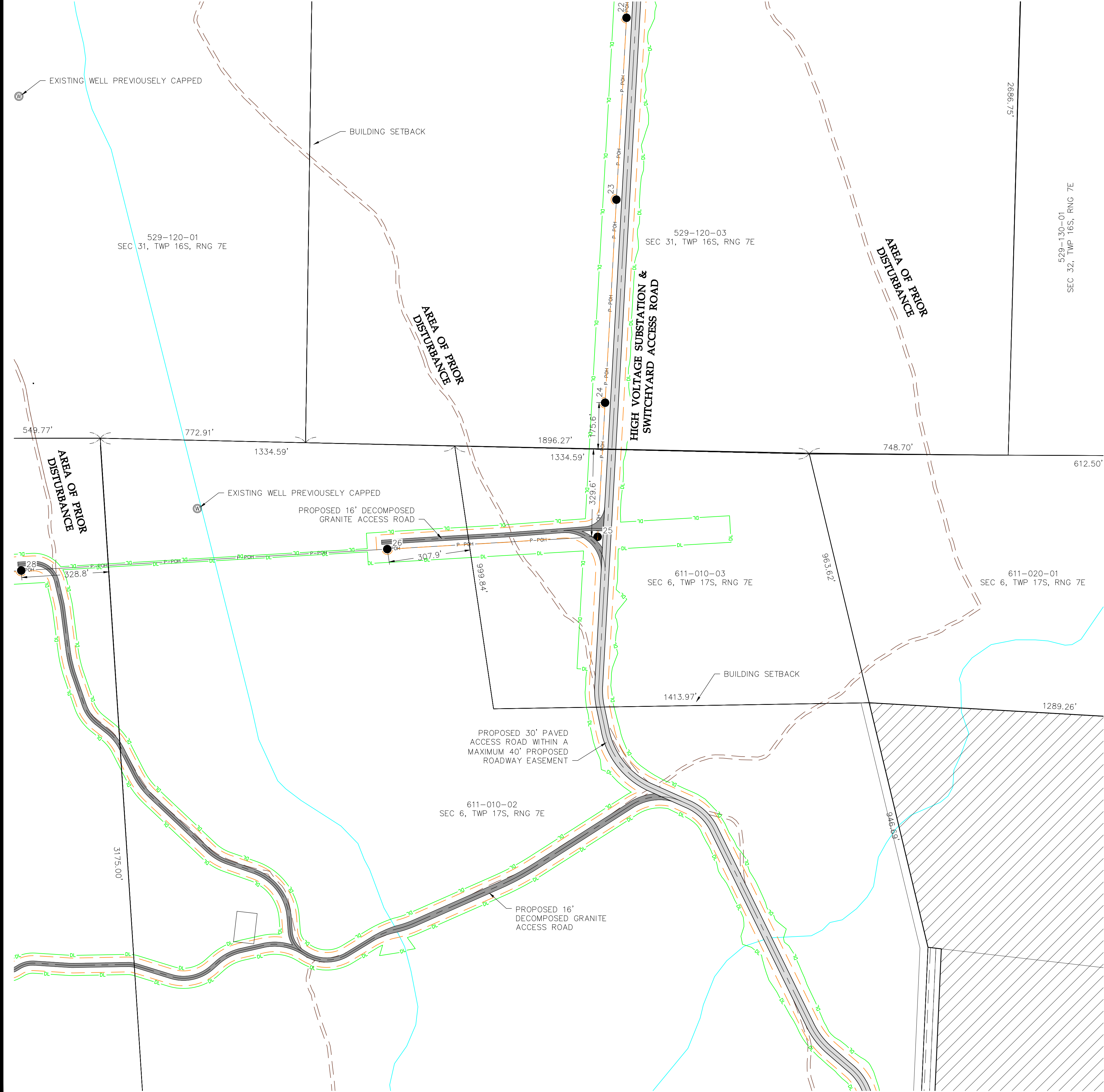
# Boulder Brush Facilities

San Diego County, California

NOT FOR CONSTRUCTION

Sheet: 12 OF 27





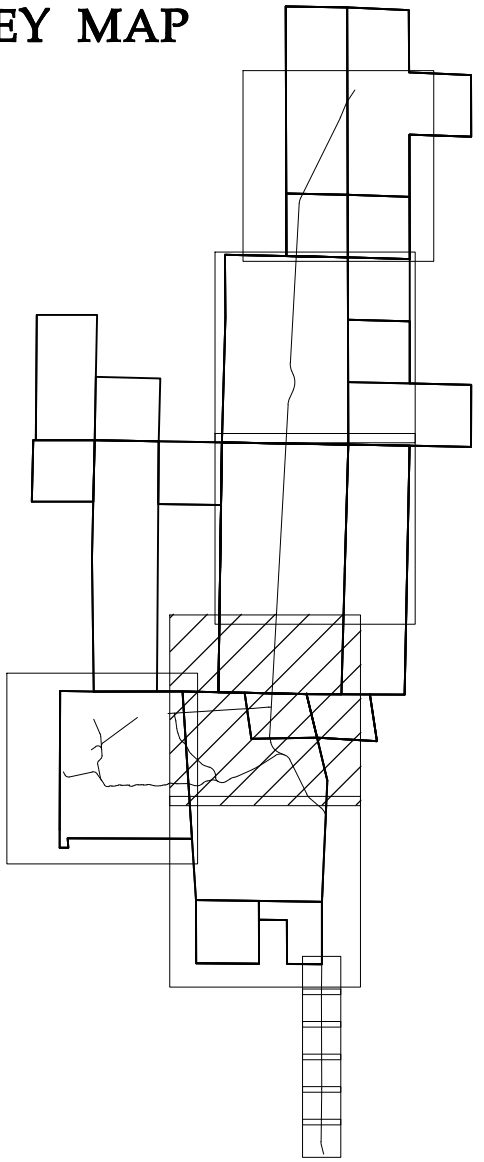
LEGEND:

- P-POH PROPOSED OVERHEAD ELECTRICAL
- 100-YEAR STORM INUNDATION
- EXISTING DRAINAGE PATH
- AREA OF PRIOR DISTURBANCE
- EXISTING OVERHEAD POWER
- PROPOSED TRANSMISSION POLE
- EXISTING FENCE LINE
- EXISTING EASEMENT
- BUILDING SETBACK
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KEY MAP



Westwood

Phone (952) 937-5150 7699 Anagram Drive  
Fax (952) 937-5822 Eden Prairie, MN 55344  
Toll Free (888) 937-5150 westwoodps.com  
Westwood Professional Services, Inc.  
California License Number: 75322

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Checked: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Record Drawing by/date: \_\_\_\_\_  
Revisions: \_\_\_\_\_  
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Prepared for:  
  
11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

Boulder Brush  
Facilities  
San Diego County, California

611-010-02,  
611-010-03,  
526-120-03

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Date: 12/05/2019  
Sheet: 13 OF 27





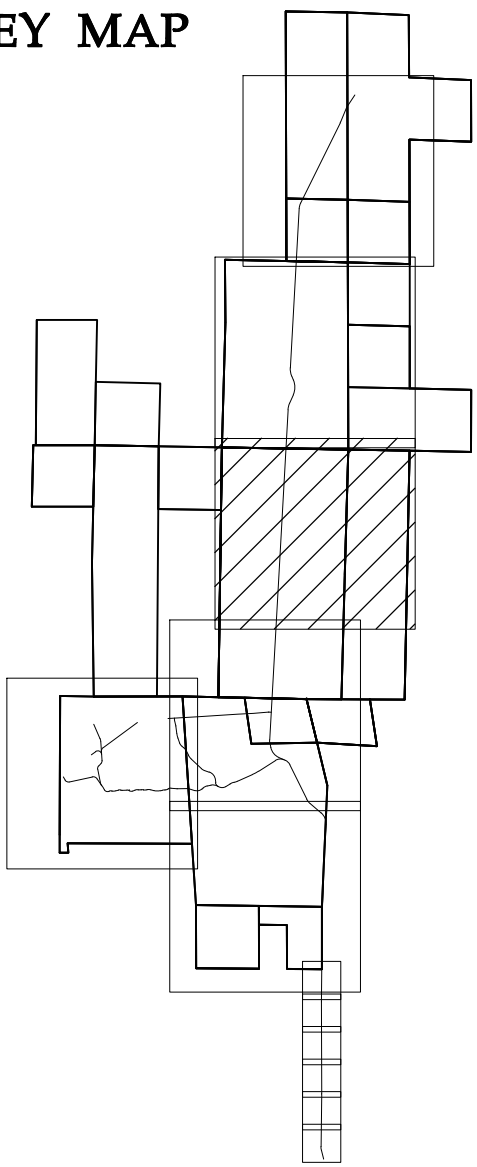
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KEY MAP



KEY MAP



Westwood

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MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

Boulder Brush  
Facilities  
San Diego County, California

529-120-03

NOT FOR CONSTRUCTION

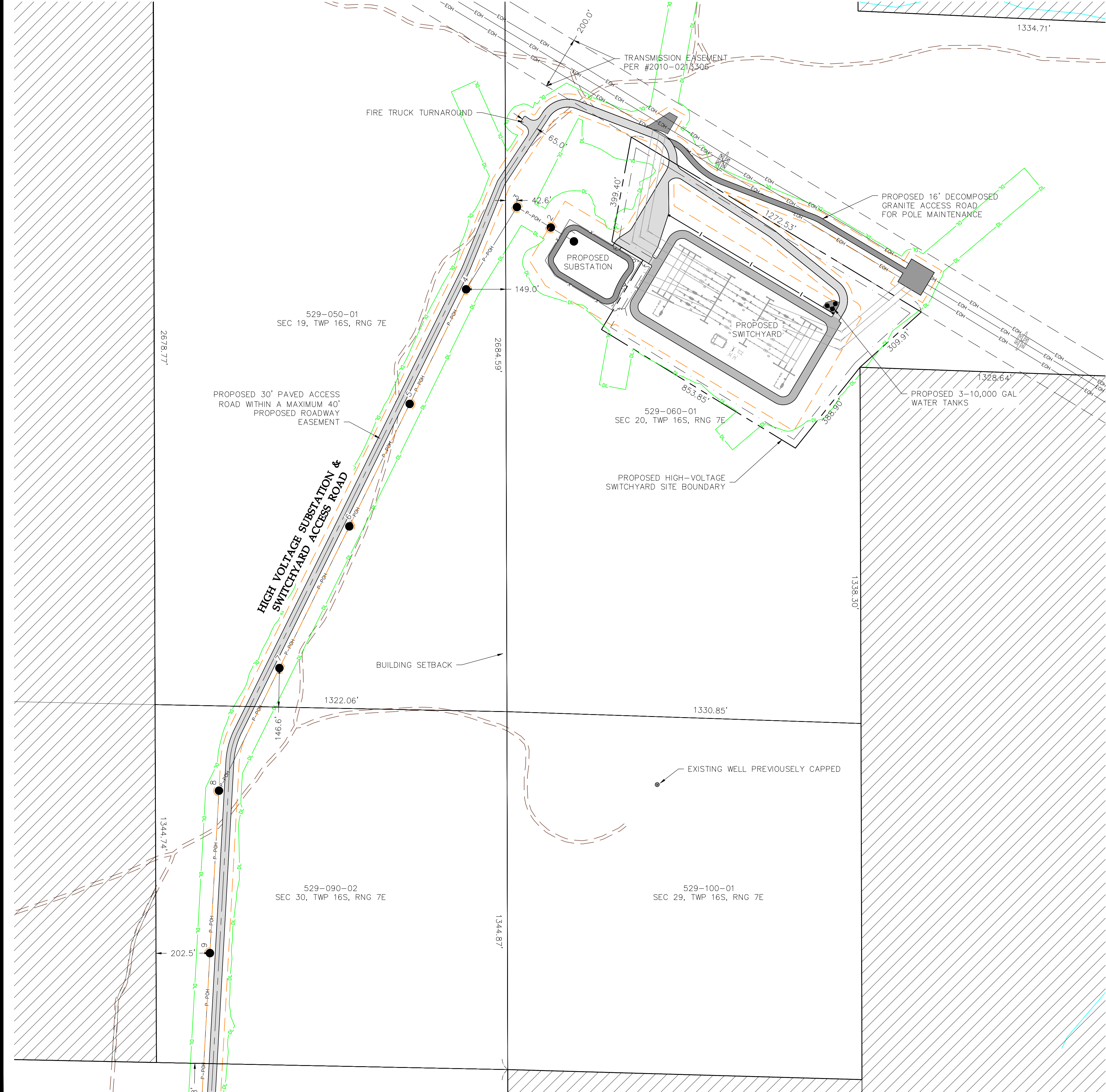
Date: 12/05/2019

Sheet: 14 OF 27









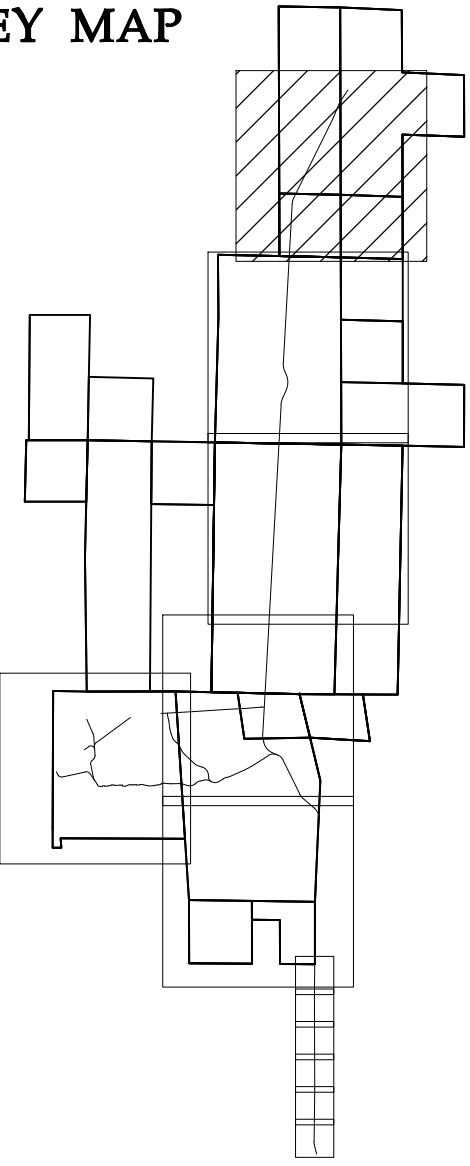
**LEGEND:**

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- ONLY EXISTING ACCESS EASEMENTS APPURTENANT TO LANDS WITHIN THE BOULDER BRUSH BOUNDARY ARE SHOWN.

**KEY MAP**



**Boulder Brush  
Facilities**  
San Diego County, California

529-090-02,  
529-050-01,  
529-060-01

**NOT FOR CONSTRUCTION**

Date: 12/05/2019  
Sheet: 16 OF 27

**Westwood**

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Westwood Professional Services, Inc.

California License Number: 75322

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Revisions: \_\_\_\_\_

Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001



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Revisions: .

Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
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ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

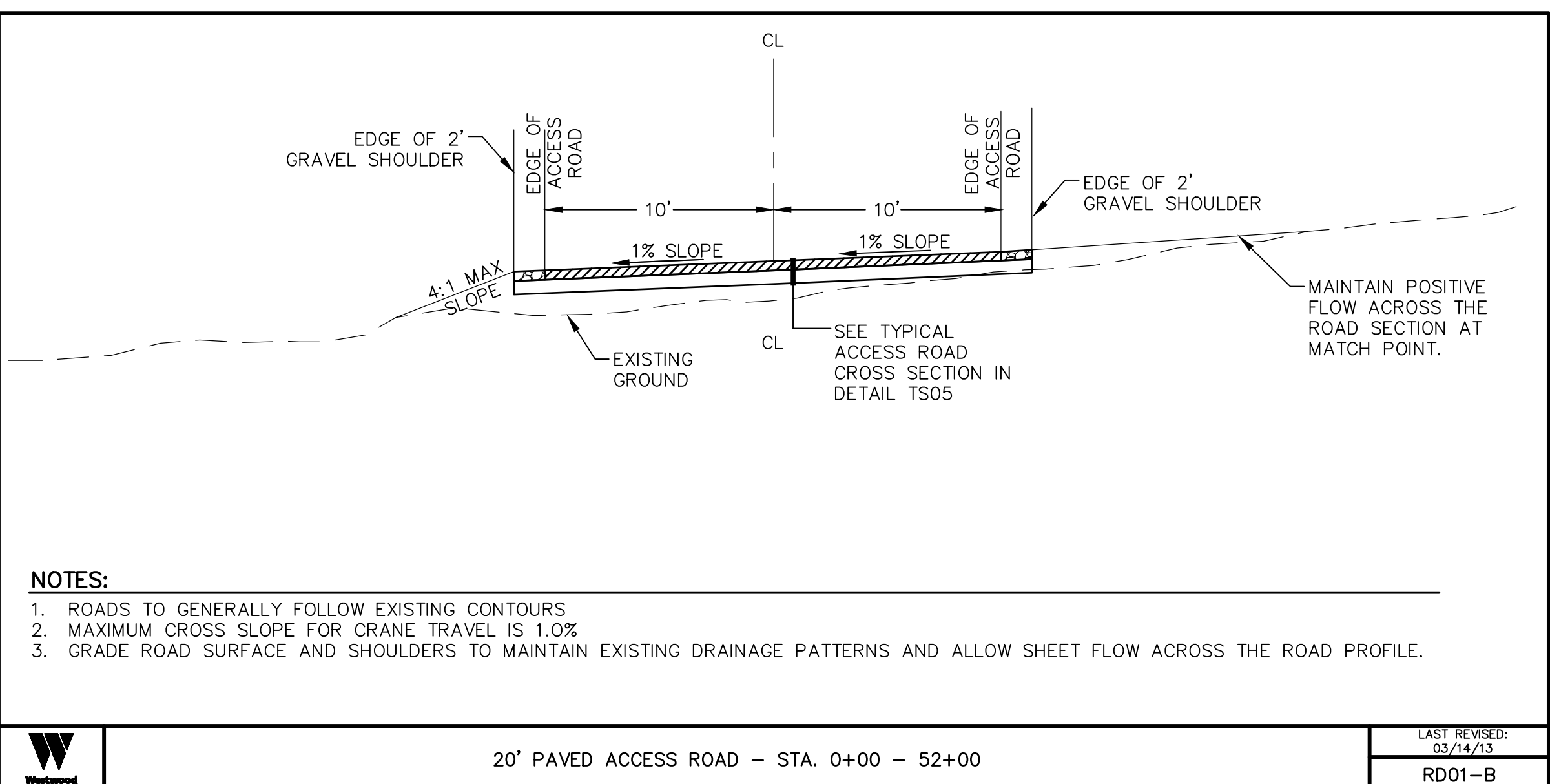
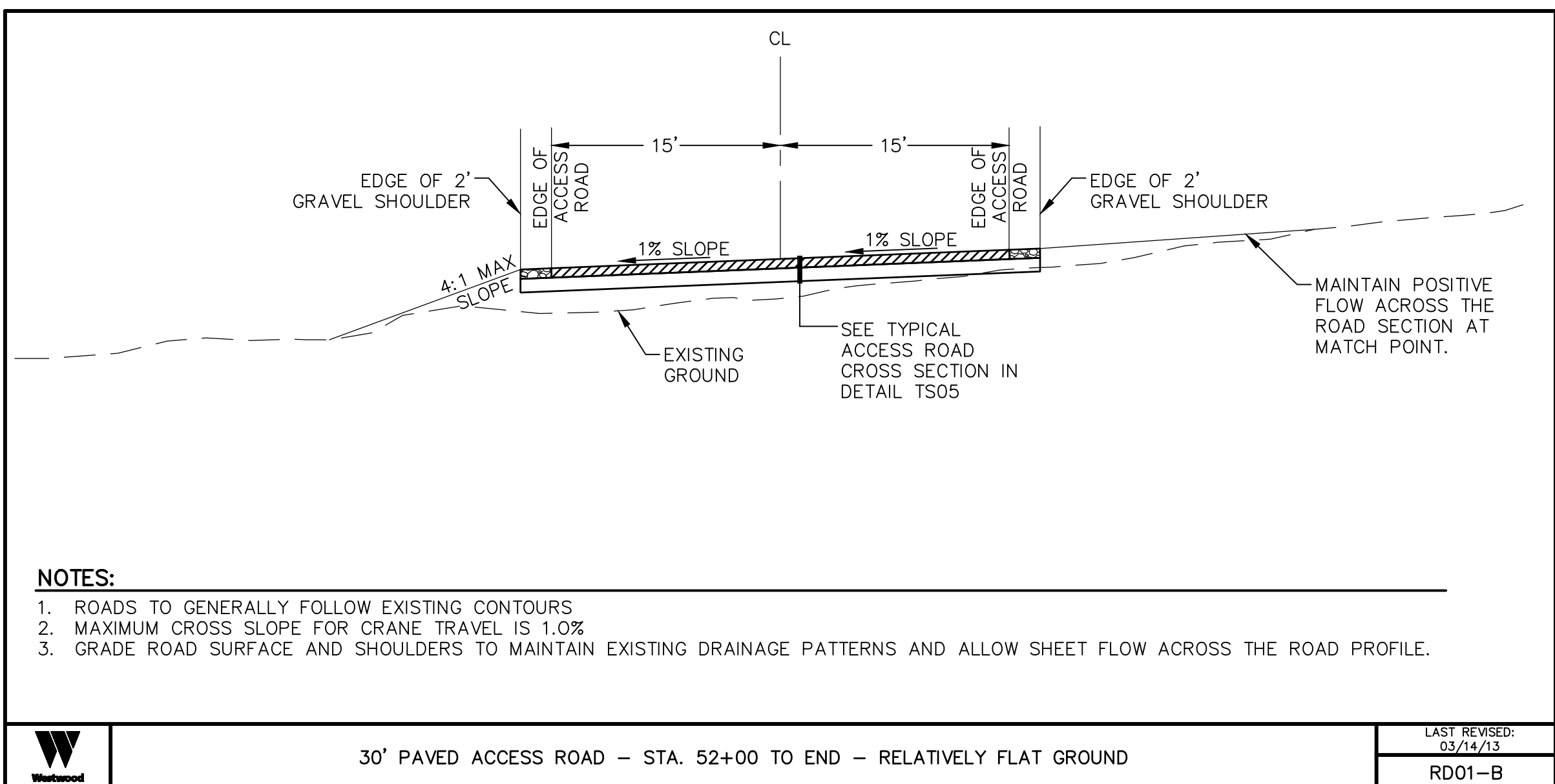
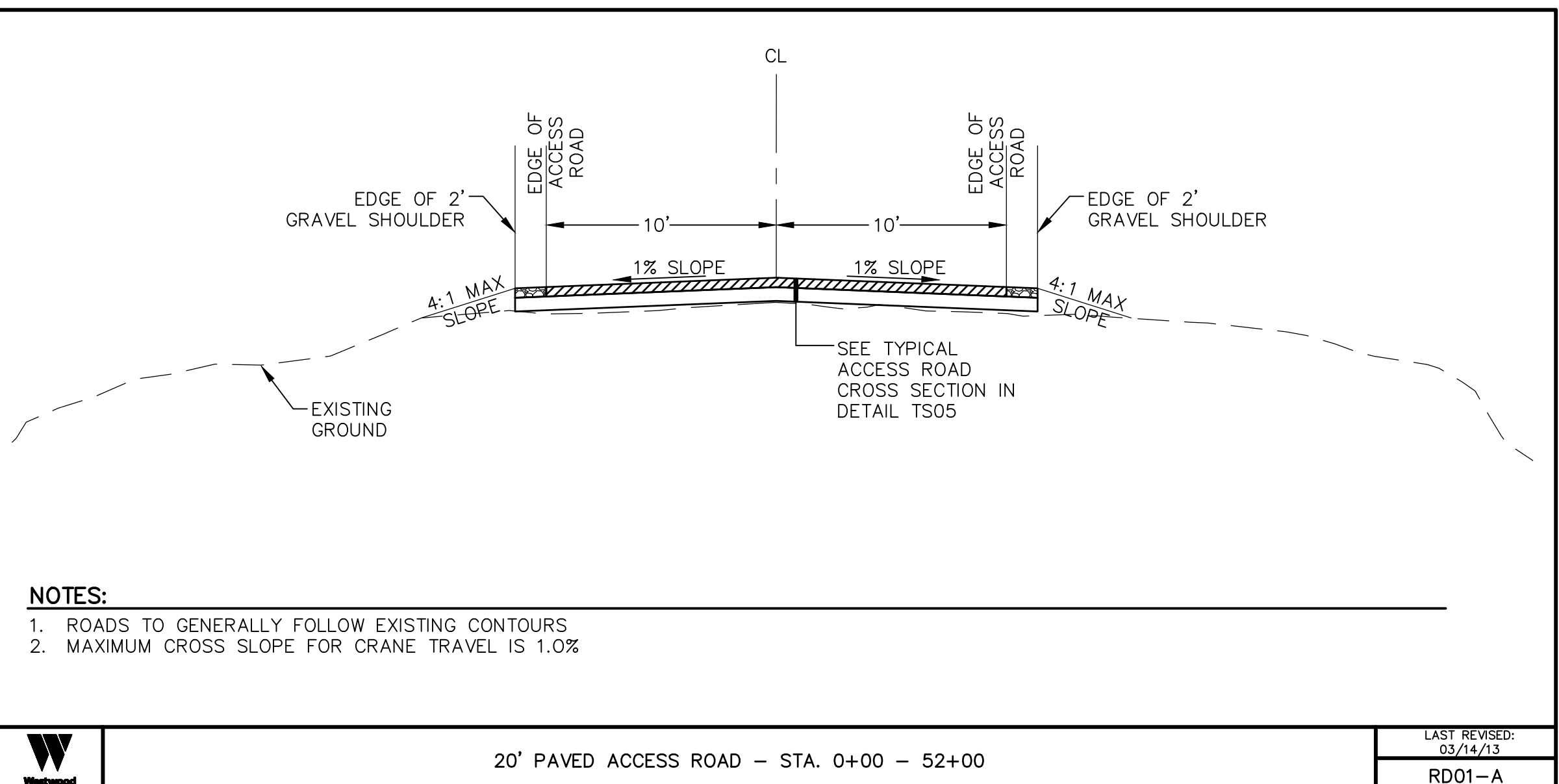
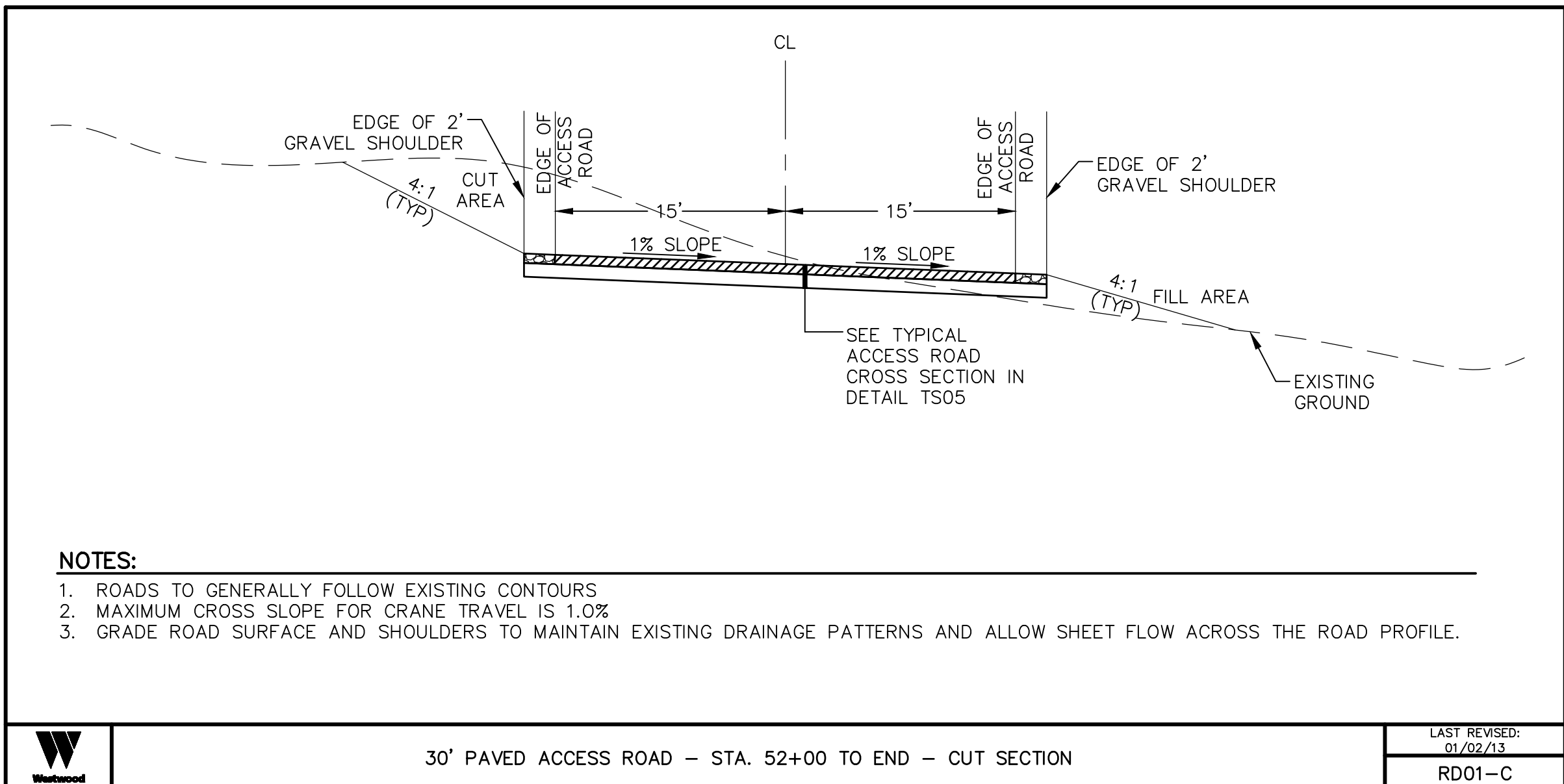
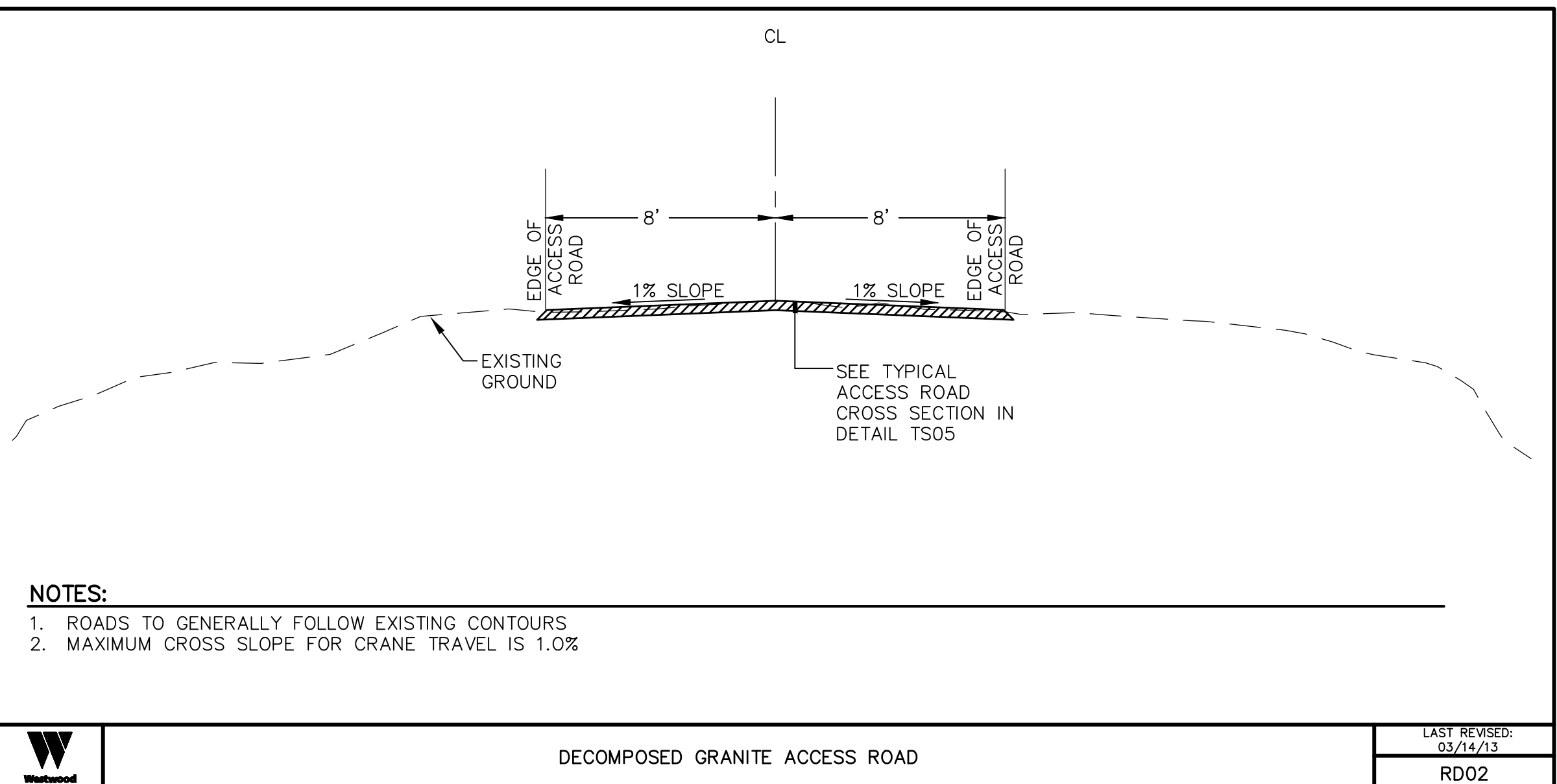
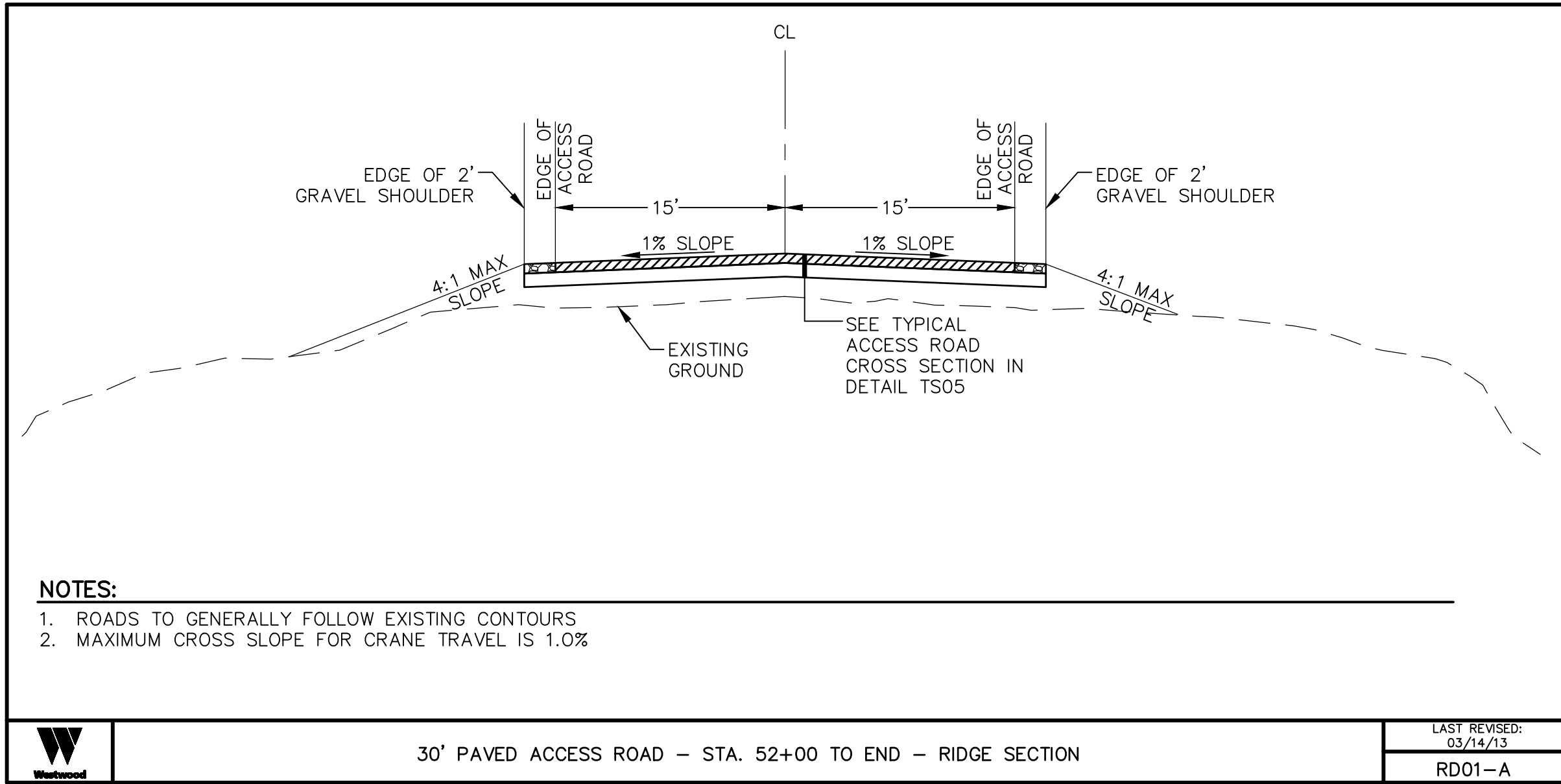
San Diego County, California

### General Details

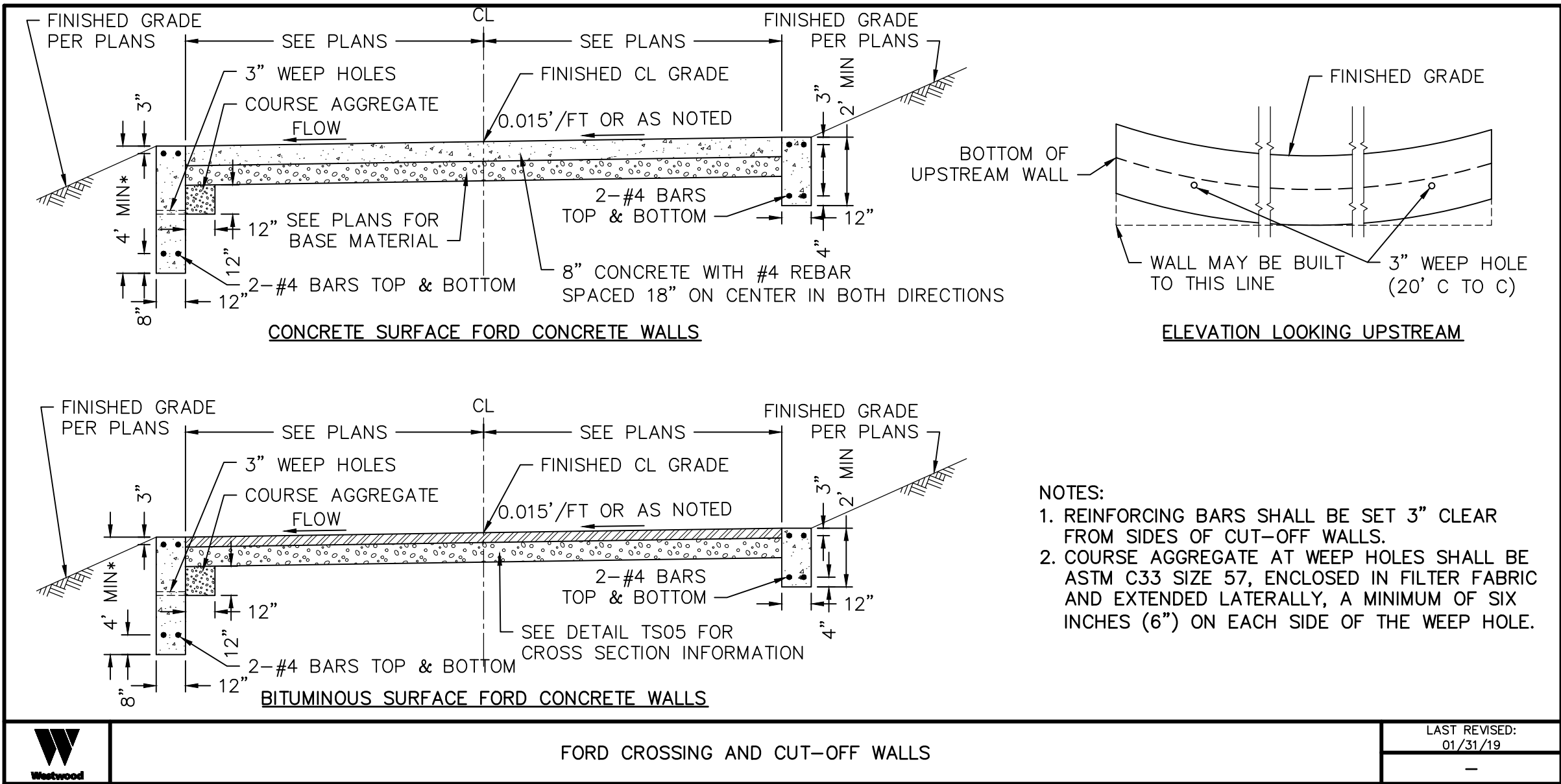
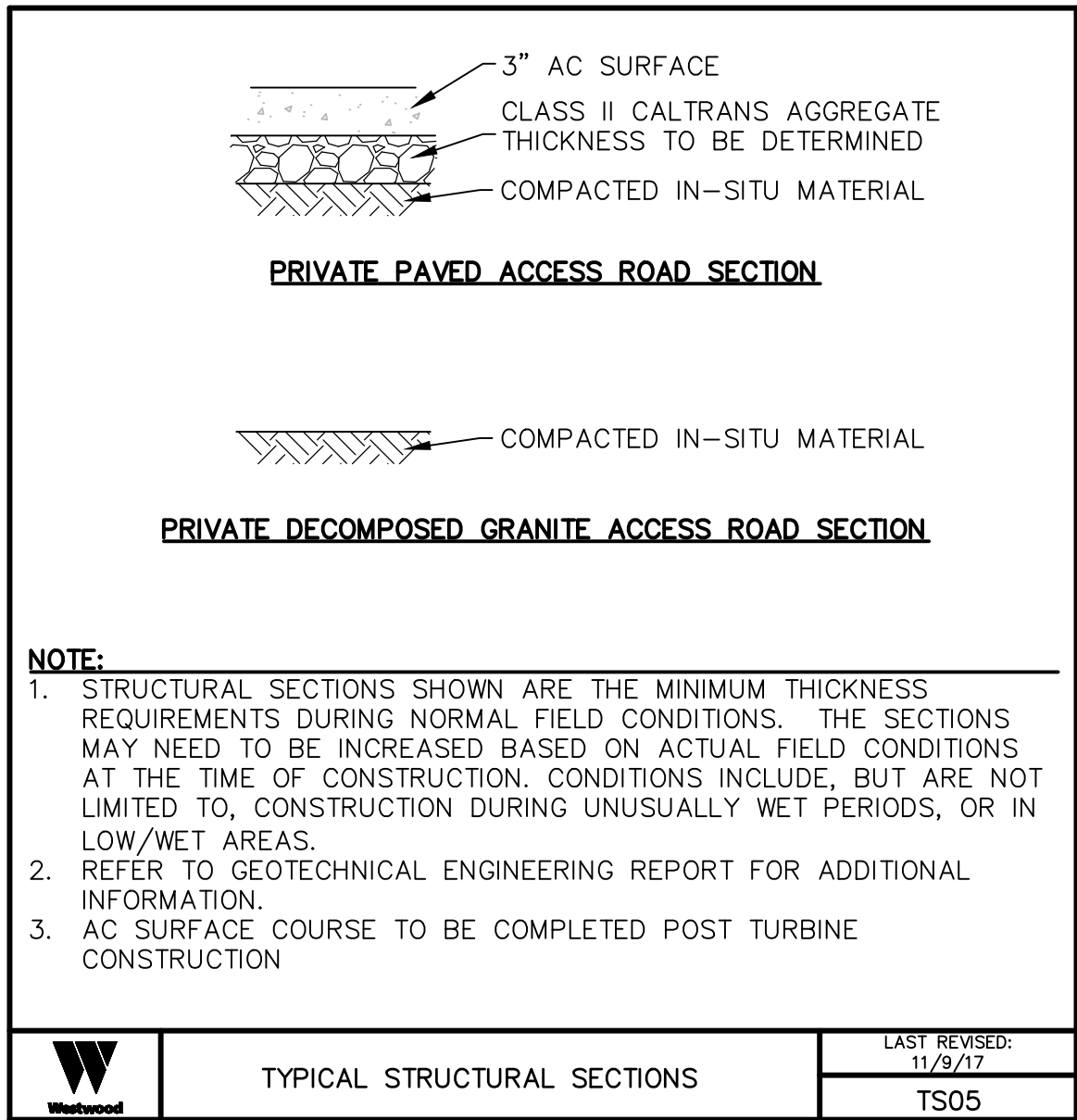
### NOT FOR CONSTRUCTION

Date: 12/05/2019

Sheet: 17 OF 27







## Westwood

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Fax (952) 937-5822 Eden Prairie, MN 55344  
Toll Free (888) 937-5150 [westwoodps.com](http://westwoodps.com)  
Westwood Professional Services, Inc.

California License Number: 75322

Designed: .

Checked: .

Drawn: .

Record Drawing by/date:

Revisions:

Prepared for:



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San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

San Diego County, California

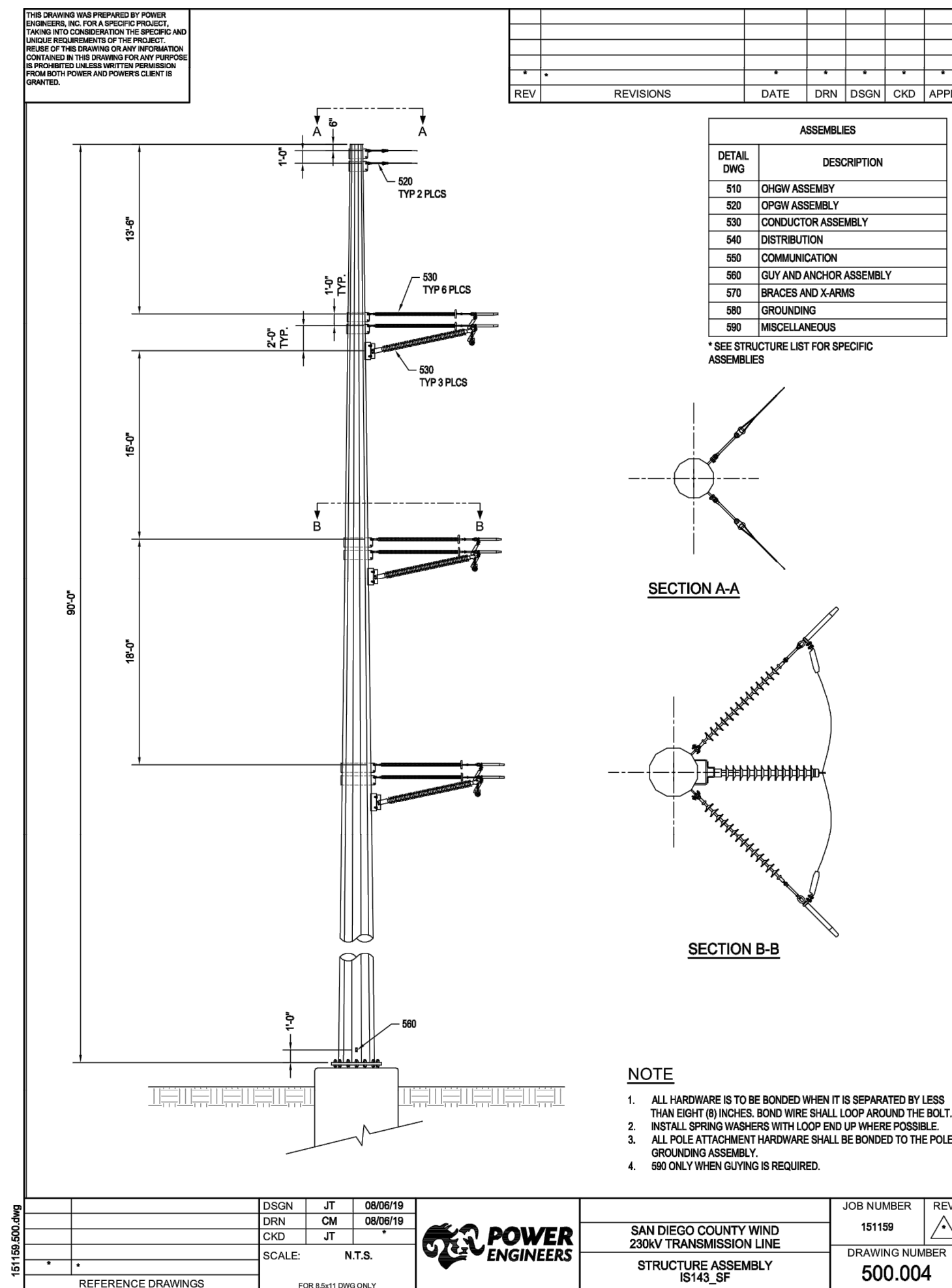
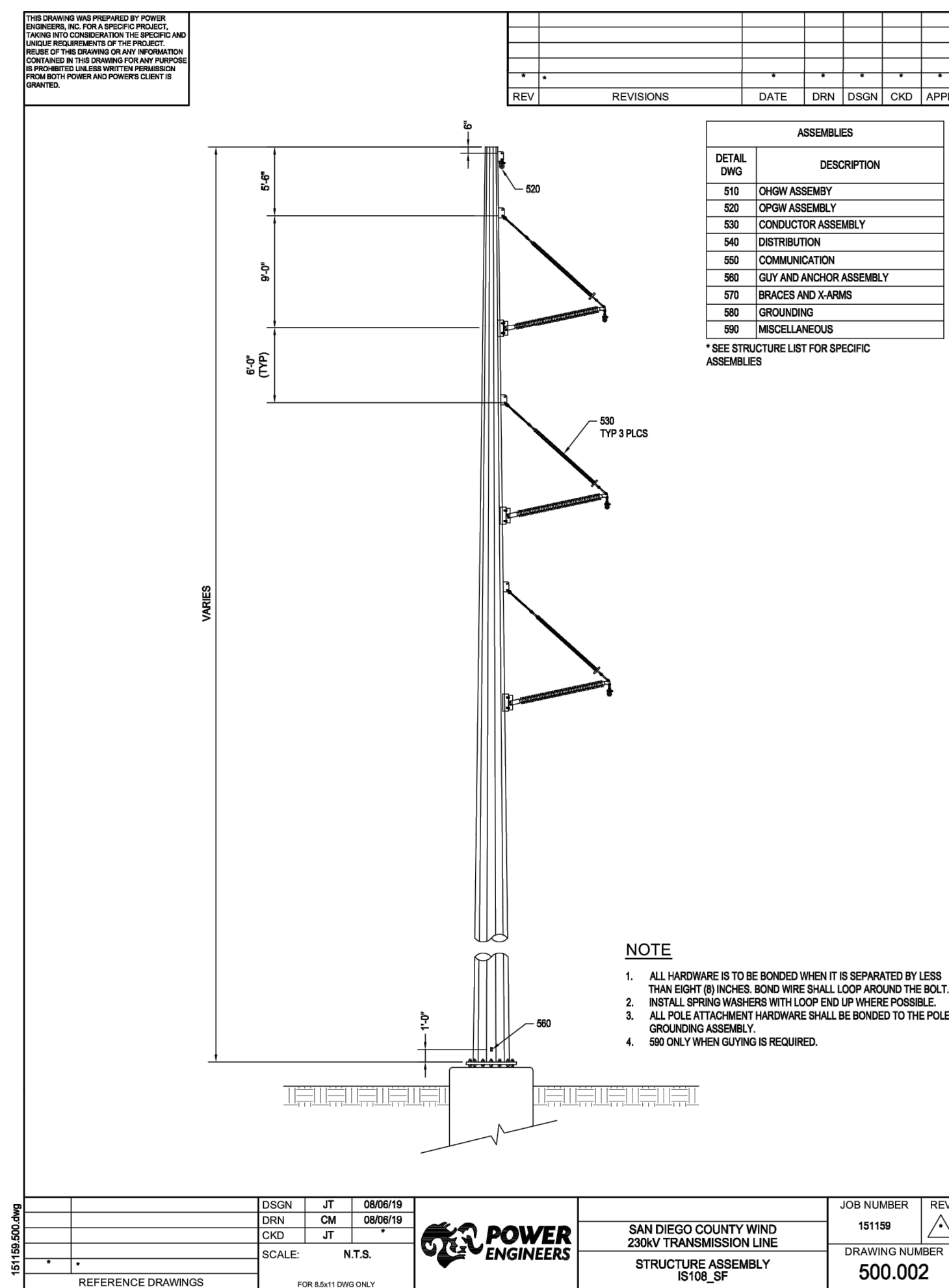
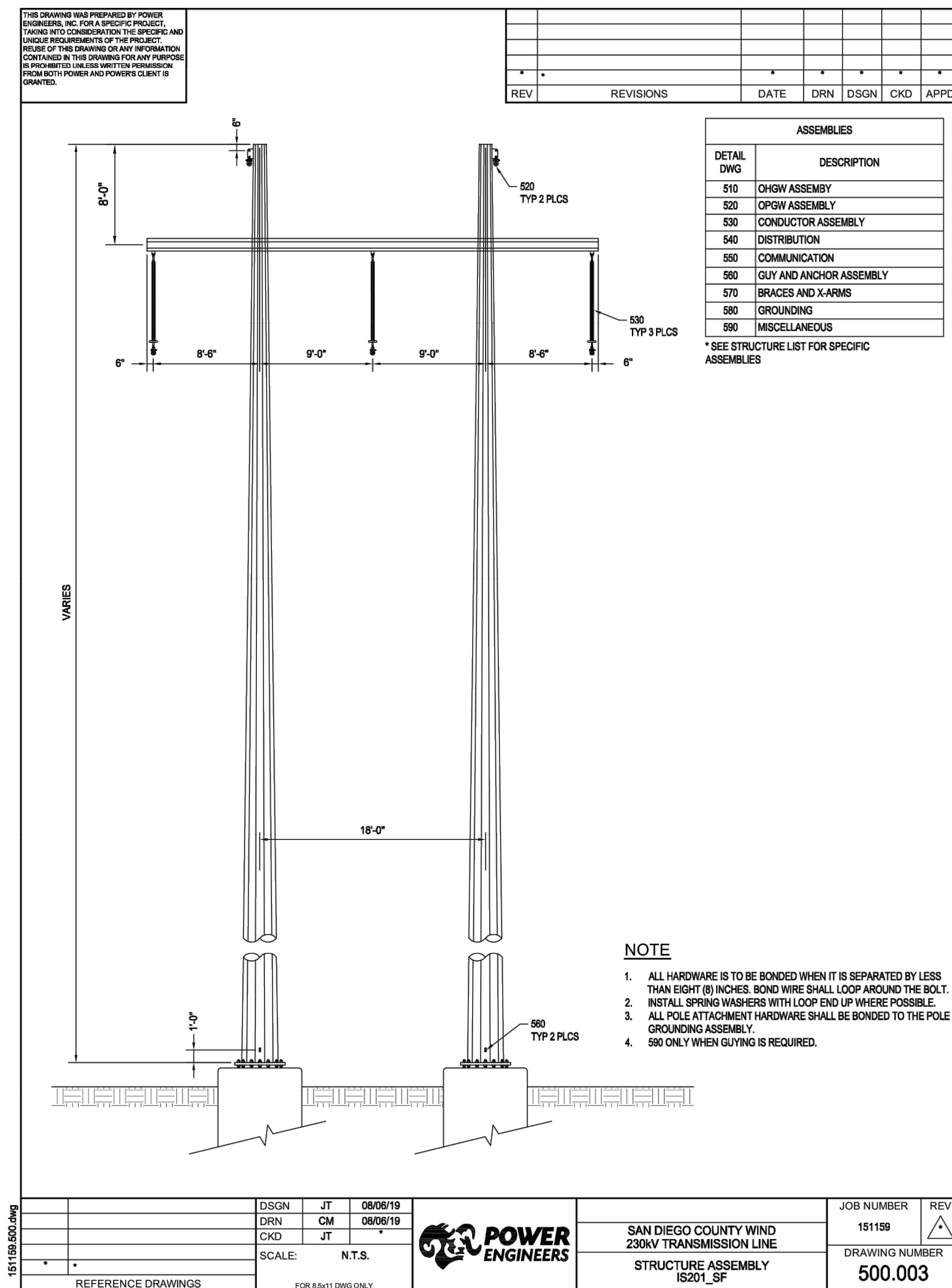
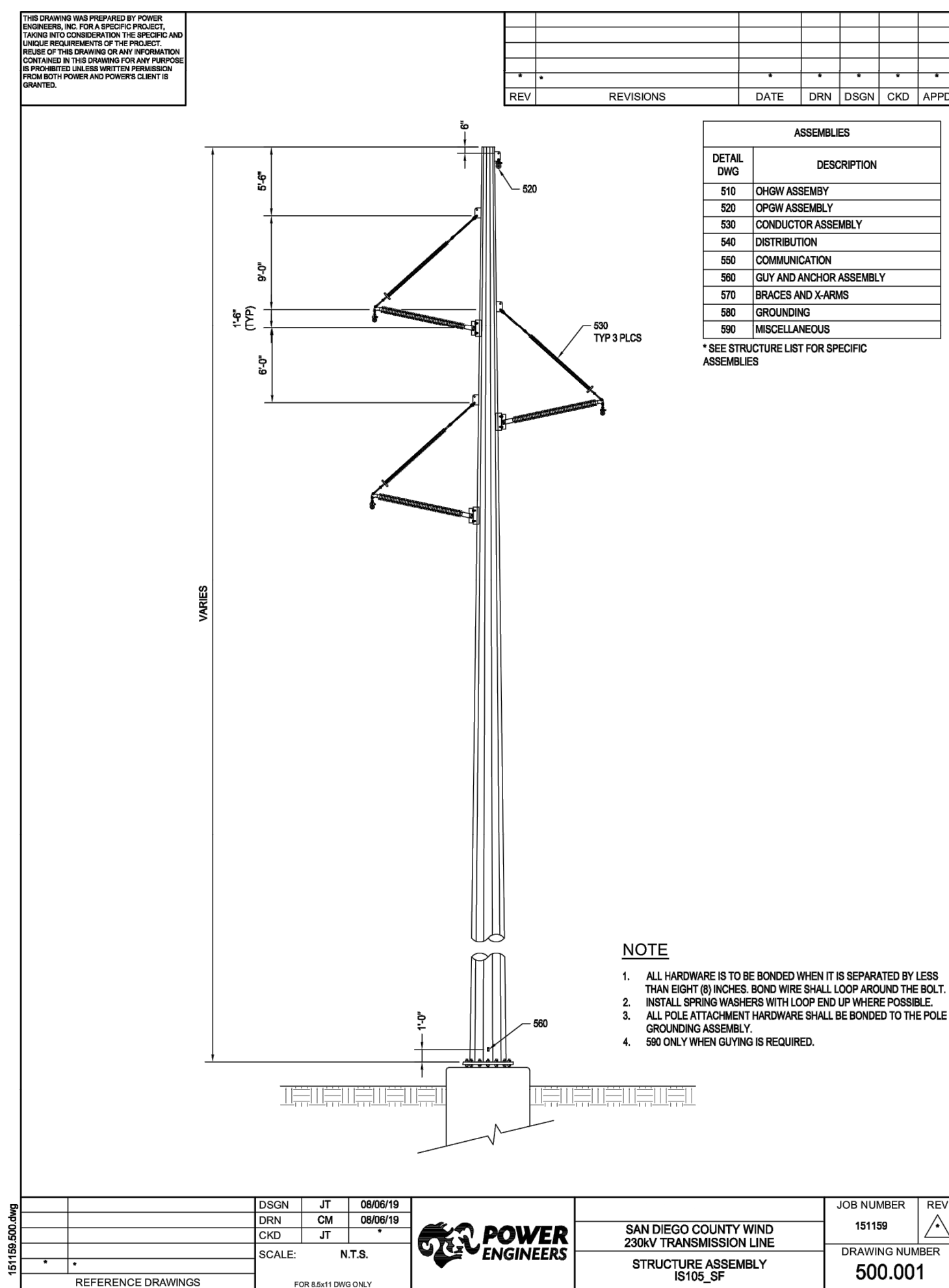
General Details

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

Sheet: 18 OF 27





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**Westwood Professional Services, Inc.**

**California License Number: 75322**

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Checked: \_\_\_\_\_

**Drawn:** \_\_\_\_\_

Record Drawing by/date: \_\_\_\_\_

Revisions:

**Prepared for:**



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

# Boulder Brush Facilities

San Diego County, California

**Transmission Details  
(Typ.)**

**NOT FOR CONSTRUCTION**

Date: 12/05/2019

Sheet: 19 OF 27



## Westwood

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Revisions:	

Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

San Diego County, California

### Fence Details

### NOT FOR CONSTRUCTION

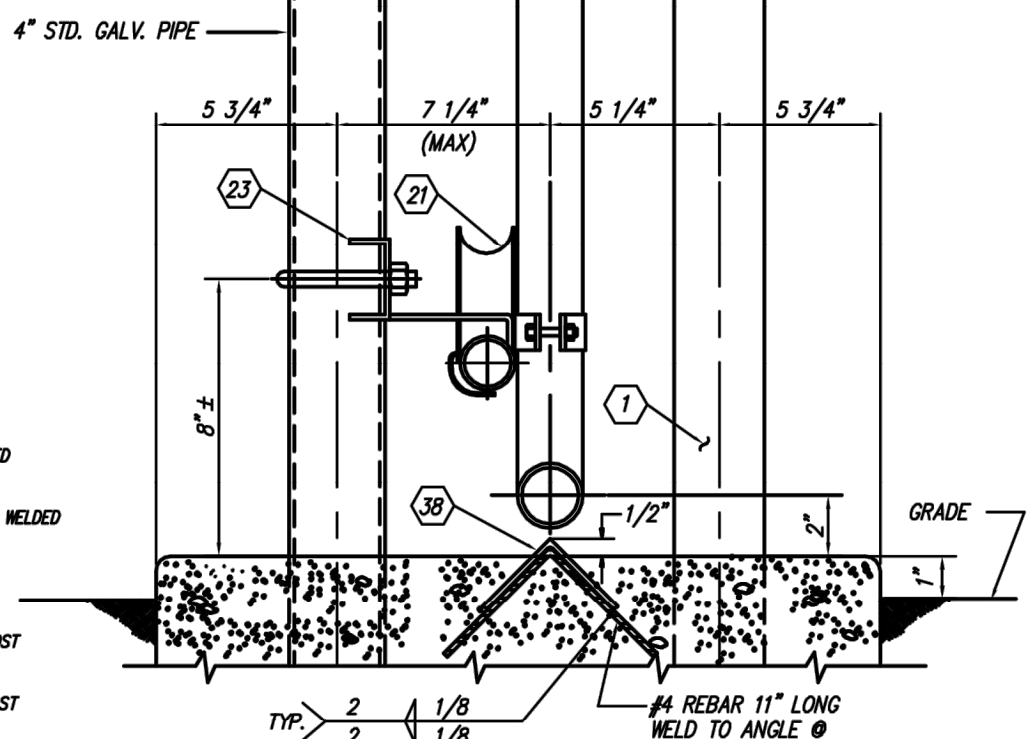
Date: 12/05/2019

Sheet: 20 OF 27

### BILL OF MATERIALS

- 1 POST-GATE & CORNER, 15'-0" LONG, GALV. STEEL,  
4" STANDARD PIPE @ 10.75 #/FT, 4.5" O.D.
- 2 POST-LINE, 14'-0" LONG, GALV. STEEL, 3" STD.  
PIPE @ 7.58 #/FT, 3.5" O.D.
- 3 RAIL-TOP, 20'-0" LONG, GALV. STEEL 1 5/8"  
O.D. @ 2.27 #/FT.
- 4 COUPLER-RAIL-OUTSIDE SLEEVE FOR 1 5/8" O.D.  
PIPE GALV. STEEL, 7" LONG
- 5 ARM-BARB WIRE 12" LONG PRESSED STEEL, VERTICAL  
TO FIT 3" STD. POST WITH 1 5/8" RAIL HOLE.
- 6 LINE & CORNER POST TERMINAL CAPS WITH TWO 12"  
LONG BARNETS - ONE VERTICAL & ONE @ 45
- 7 RAIL-FRAME FOR GATES 2" O.D. @ 2.72 #/FT. WELDED  
GALV. STEEL (FABRICATE)
- 8 RAIL-BRACE, GALV. STEEL, 1 5/8" O.D. @ 2.27 #/FT. WELDED  
20" LONG.
- 9 RAIL-END, OFFSET LUG, GALV. STEEL, TO FIT  
1 5/8" O.D. RAIL.
- 10 BRACE-BAND-GALV. STEEL, 1/8" X 1" FOR 4" STD. POST  
WITH 5/16" X 1 1/4" CARRIAGE BOLT.
- 11 BRACE-BAND-GALV. STEEL, 1/8" X 1" FOR 3" STD. POST  
WITH 3/16" X 1/4" CARRIAGE BOLT.
- 12 TENSION-BAND-GALV. STEEL, 1/8" X 1" FOR 4" STD.  
POST WITH 5/16" X 1 1/4" CARRIAGE BOLT.
- 13 TENSION-BAND-GALV. STEEL, 1/8" X 1" FOR 3" STD.  
POST WITH 5/16" X 1/4" CARRIAGE BOLT.
- 14 TENSION-BAND-GALV. STEEL, 1/8" X 1" FOR 2" O.D.  
POST WITH 5/16" X 1 1/4" CARRIAGE BOLT.
- 15 TENSION-BAND-GALV. STEEL, FLAT 1/4" X 3/4" X 95"
- 16 TRUSS-ROD-ROUND-THREADED GALV. STEEL, 3/8"  
DIA. X 10'-6"
- 17 TRUSS-TIGHTENER-GALV. STEEL
- 18 TRUSS-HOOK BOLT-GALV. STEEL, 7/16" X 9" THREADED
- 19 TERMINAL TOP-DOME-GALV. STEEL TO FIT 4" STD. POST
- 20 TERMINAL TOP-DOME, GALV. STEEL, TO FIT 2" O.D. POST.
- 21 WHEEL SAFETY PIPE TRACK WITH CLAMP FOR 2" O.D. PIPE
- 22 GATE WHEEL, SINGLE CARRIER, WELDED ON TYPE WITH  
6" V GROOVE WHEEL.
- 23 TRACK-GATE GARD-GALV. STEEL, 2" O.D. PIPE @ 2.27 #/FT  
WITH PIPE TRACK BRACKETS WITH 1/4" DIA. IS
- 24 WIRE-BARBED-GALV. STEEL, 12 1/2 GA-4 POINT.
- 25 FABRIC-CHAINLINK-GALV. #9 GA. WIRE, 3" SQUARE MESH
- 26 WIRE-TENSION GALV. STEEL, ANNEALED #6 GA.
- 27 HOOK-RE-GALV. STEEL, 12 GA 13 1/2" LONG (FOR BARB WIRE)
- 28 HOOK-RE-GALV. STEEL, 12 GA 6 1/2" LONG (FABRIC TO 3" POST)
- 29 RING-HOG-GALV. STEEL, #10 GA 1 5/16" LONG.
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED
- 33 NOT USED
- 34 NOT USED
- 35 NOT USED
- 36 NOT USED
- 37 NOT USED
- 38 GUIDE-GATE WHEEL-GALV. STEEL-L 3 X 3 X 1/4 X 20'-6"  
(EMBED IN CONCRETE)
- 39 ELECTRIC SUBSTATION FENCE OR WALL SIGNS AS SHOWN ON  
CONSTRUCTION DETAILS - SIGNS ESC-2400 TO BE INSTALLED  
AS FOLLOWS: SIGN DETAIL #1 ABOVE #6 ON EACH GATE, 10'  
DISTANCE EACH WAY FROM ANY CORNER AND EVERY 50 FT.  
MAX. ALONG ANY FENCE RAIL. DETAIL #6 SIGN ON ONE GATE  
ONLY. ALL SIGNS TO BE AT EYE LEVEL.
- 40 CENTER SUPPORT POST 5'-0" LONG, GALV. STEEL, 3" STD.  
PIPE AT 7.58 #/FT, 3.5" O.D.
- 41 PIPE SLEEVE 12" LONG, GALV. STEEL, 4" EXTRA STRONG  
PIPE AT 14.88 #/FT, 3.625" I.D.
- 42 TERMINAL TOP-DOME, GALV. STEEL TO FIT 3" STD. POST.
- 43 CORNER BAYONETS, 12" LONG GALV. STEEL 1 1/2" STD. PIPE
- 44 TERMINAL TOP-DOME, GALV. STEEL TO FIT 1 1/2" STD. PIPE

- NOTES:
1. WELDS IDENTIFIED AS REQUIRING CONTINUOUS OR PERIODIC SPECIAL  
INSPECTION NEED NOT HAVE SPECIAL INSPECTION WHEN THE WELDING  
IS DONE IN AN APPROVED FABRICATORS SHOP. HOWEVER, THE APPROVED  
FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE  
WITH USC SECTION 306 (D).
  2. THERE IS NO FIELD WELDING ON THIS CHAIN LINK FENCE.
  3. GROUNDING GRID INSIDE FENCE PERIMETER AND FENCE GROUNDING TO BE  
DONE BY BELOW GRADE CONTRACTOR.
  4. ALL GROUND WIRES PER STATION GROUNDING PLAN.
  5. ALL EXOTHERMIC WELDING (CAD WELDING) TO BE DONE BY QUALIFIED PERSONNEL.



DETAIL 1

SCALE: 3"=1'-0"

DETAIL 2  
CORNER POST TOP

NO SCALE

DETAIL 3  
LINE POST TOP

NO SCALE

SECTION A - A

NO SCALE

SECTION B - B

NO SCALE

DETAIL 4--LOCK PLATE DETAIL

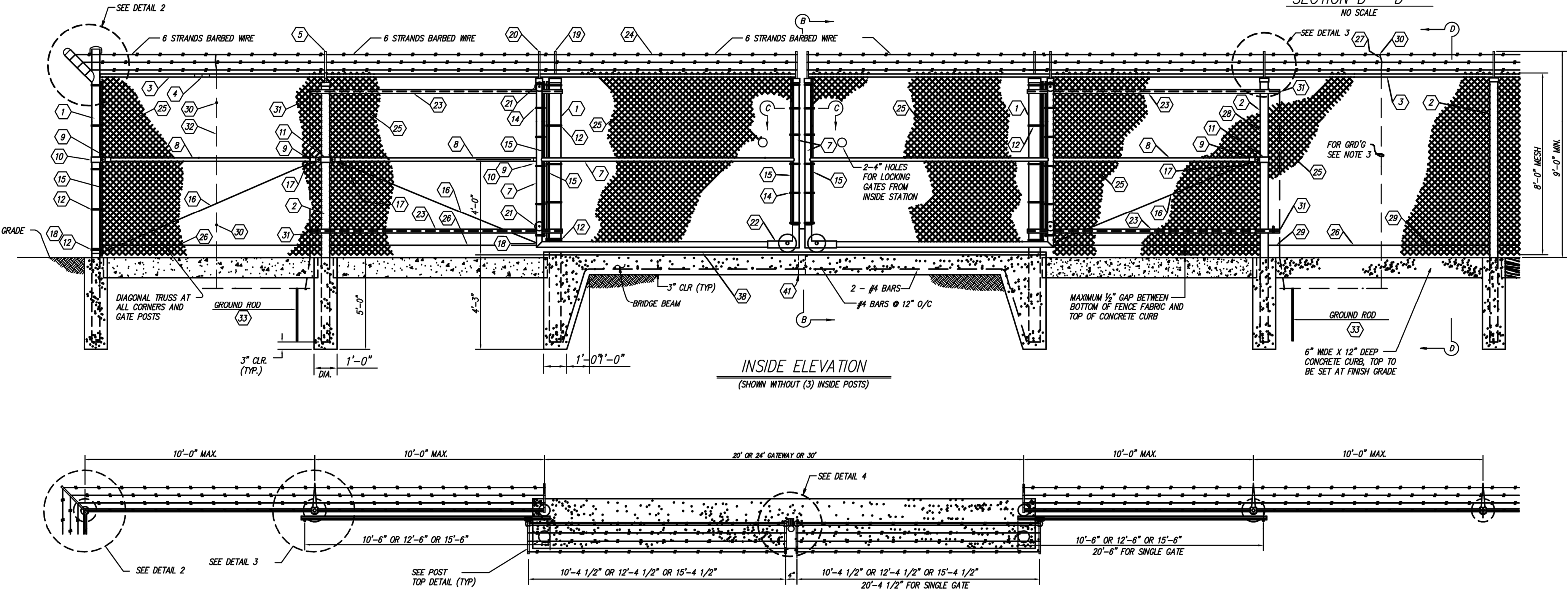
NO SCALE

SECTION C - C

NO SCALE

SECTION D - D

NO SCALE



PLAN

NO SCALE

TYPICAL SDG&E STANDARD SLIDING GATE AND FENCE DETAIL



## Westwood

Phone (952) 937-5150 7699 Anagram Drive  
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Westwood Professional Services, Inc.

California License Number: 75322

Designed: \_\_\_\_\_

Checked: \_\_\_\_\_

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Record Drawing by/date: \_\_\_\_\_

Revisions: \_\_\_\_\_

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Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

San Diego County, California

### Fence Details

### NOT FOR CONSTRUCTION

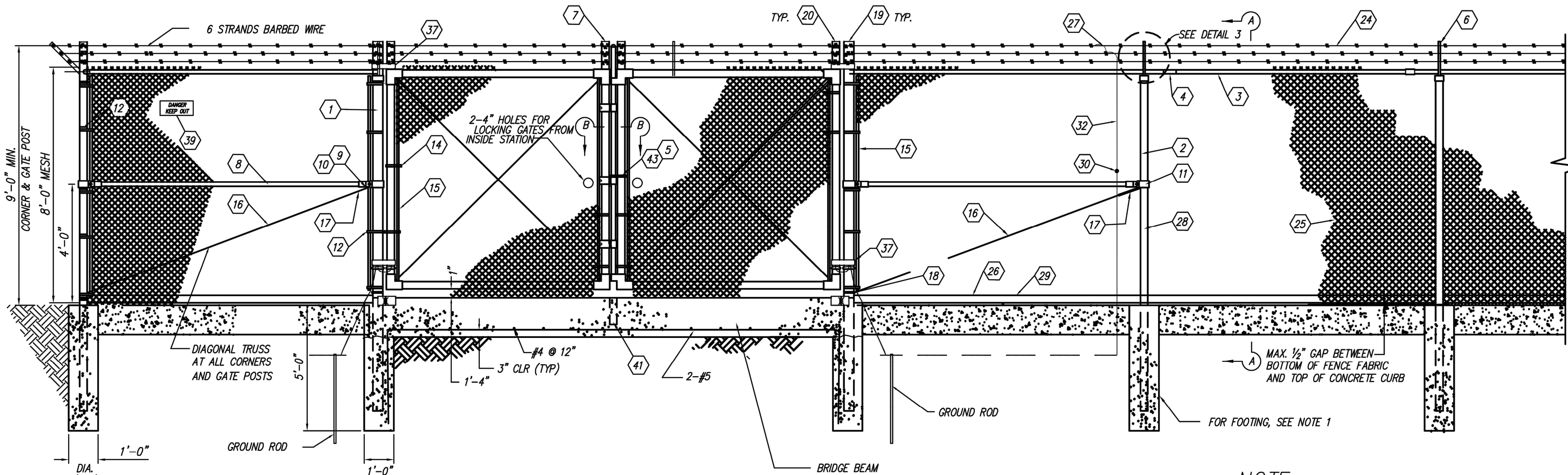
Date: 12/05/2019

Sheet: 21 OF 27

### BILL OF MATERIALS

- 1) POST-GATE & CORNER, 14'-0" LONG, GALV. STEEL, 4" STD. PIPE @ 10.79 #/FT, 4.5" O.D.
- 2) POST-LINE, 13'-0" LONG, GALV. STEEL, 3" STD. PIPE @ 7.58 #/FT, 3.5" O.D.
- 3) RAIL-TOP, 20'-0" LONG, GALV. STEEL 1-5/8" O.D. @ 2.27 #/FT.
- 4) COUPLER-RAIL-OUTSIDE SLEEVE FOR 1-5/8" O.D. PIPE GALV. STEEL 7" LONG.
- 5) DROP ROD, 1-5/8" O.D. DIA. (SWING GATE ONLY)
- 6) LINE POST TERMINAL CAPS WITH TWO 12" LONG BAYONETS. ONE VERTICAL AND 1 AT 45 DEGREES.
- 7) RAIL-FRAME FOR GATE 2" O.D. @ 2.72 #/FT. WELDED GALV. STEEL (FABRICATE).
- 8) RAIL-BRACE, GALV. STEEL 1-5/8" O.D. @ 2.27 #/FT. 20' LONG.
- 9) RAIL-END, OFFSET LUG, GALV. STEEL, TO FIT 1-5/8" O.D. RAIL
- 10) BRACE-BAND GALV. STEEL 1/8 X 1" FOR 4" STD. POST WITH 5/16" X 1-1/4" CARRIAGE BOLT.
- 11) BRACE-BAND-GALV. STEEL 1/8 X 1" FOR 3" STD. POST WITH 5/16" X 1-1/4" CARRIAGE BOLT.
- 12) TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 4" STD. POST WITH 5/16" X 1-1/4" CARRIAGE BOLT.
- 13) TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 3" STD. POST WITH 5/16" X 1-1/4" CARRIAGE BOLT.
- 14) TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 2" O.D. POST WITH 5/16" X 1-1/4" CARRIAGE BOLT.
- 15) TENSION-BAR-GALV. STEEL FLAT 1/4" X 3/4" X 95°.
- 16) TRUSS-ROD-ROUND-THREADED GALV. STEEL 3/8" DIA X 10'-6".
- 17) TRUSS-TIGHTNER-GALV. STEEL
- 18) TRUSS-HOOK BOLT-GALV. STEEL 7/16" X 5" THREADED.
- 19) TERMINAL TOP-DOME, GALV. STEEL TO FIT 4" STD. POST.
- 20) TERMINAL TOP-DOME, GALV. STEEL, TO FIT 2" O.D. POST.
- 21) NOT USED
- 22) NOT USED
- 23) NOT USED
- 24) WIRE-BARBED-GALV. STEEL 12-1/2 GA-4 POINT.
- 25) FABRIC-CHAINLINK-GALV. #9 WIRE 3-1/2"x 5-1/2" MESH - 8'-0" HIGH, WITH 2-3/8" x 5/16" R/W SLATS.
- 26) WIRE-TENSION-GALV. STEEL ANNEALED #6 GA.
- 27) HOOK-TIE-GALV. STEEL 12 GA 13-1/2" LONG (FOR BARB WIRE).
- 28) HOOK-TIE-GALV. STEEL 12 GA 6-1/2" LONG (FABRIC TO 3" POST) 5/POST REQ'D.
- 29) RING-HOG-GALV. STEEL #10 GA 1-9/16" LONG.
- 30) NOT USED
- 31) NOT USED
- 32) NOT USED
- 33) NOT USED
- 34) NOT USED
- 35) NOT USED
- 36) NOT USED
- 37) HINGE, INDUST. GATE, FOR 4" STD. POST. (SWING GATE ONLY).
- 38) NOT USED
- 39) ELECTRIC SUBSTATION FENCE OR WALL SIGNS AS SHOWN ON CONSTRUCTION DETAILS - SIGNS ESC-2400 TO BE INSTALLED AS FOLLOWS: SIGN DETAIL #4 ABOVE DETAIL #6 ON EACH GATE; 10 FT. DISTANCE EACH WAY FROM ANY CORNER AND EVERY 50 FT. MAX. ALONG ANY FENCE RUN. DETAIL #5 SIGN ON ONE GATE ONLY. ALL SIGNS TO BE AT EYE LEVEL.
- 40) CENTER SUPPORT POST 5'-0" LONG, GALV. STEEL 3" STD.
- 41) PIPE SLEEVE 12" LONG GALV. STEEL, 4" EXTRA STRONG PIPE AT 14.98 #/FT.
- 42) TERMINAL TOP-DOME GALV. STEEL TO FIT 3" STD. PIPE.
- 43) LATCH ASSEMBLY, INDUST. DOUBLE GATE, WITH 3 GUIDES AND BOLTS. (SWING GATE ONLY)
- 44) NOT USED
- 45) CORNER BAYONETS, 12" LONG GALV. STEEL 1 1/2" STD. PIPE
- 46) TERMINAL TOP-DOME, GALV. STEEL TO FIT 1 1/2" STD. PIPE.

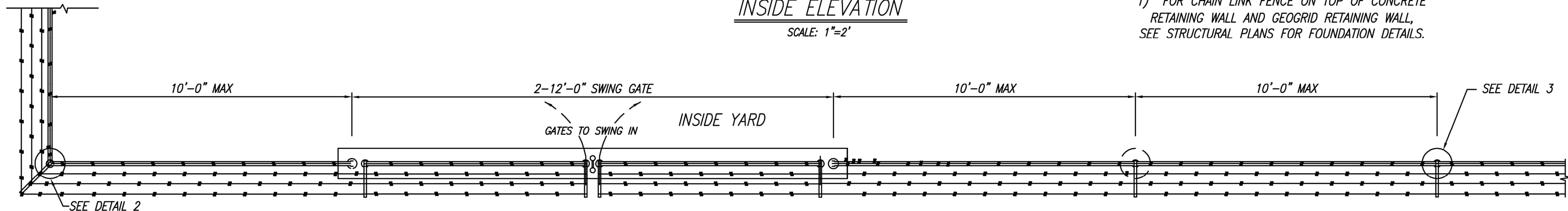
- NOTES:
1. WELDS IDENTIFIED AS REQUIRING CONTINUOUS OR PERIODIC SPECIAL INSPECTION NEED NOT HAVE SPECIAL INSPECTION WHEN THE WELDING IS DONE IN AN APPROVED FABRICATORS SHOP. HOWEVER, THE APPROVED FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH UBC SECTION 306 (f).
  2. THERE IS NO FIELD WELDING ON THIS CHAIN LINK FENCE.
  3. GROUNDING GRID INSIDE FENCE PERIMETER AND FENCE GROUNDING TO BE DONE BY BELOW GRADE CONTRACTOR.
  4. ALL GROUND WIRES PER STATION GROUNDING PLAN.
  5. ALL EXOTHERMIC WELDING (CAD WELDING) TO BE DONE BY QUALIFIED PERSONNEL.



### INSIDE ELEVATION

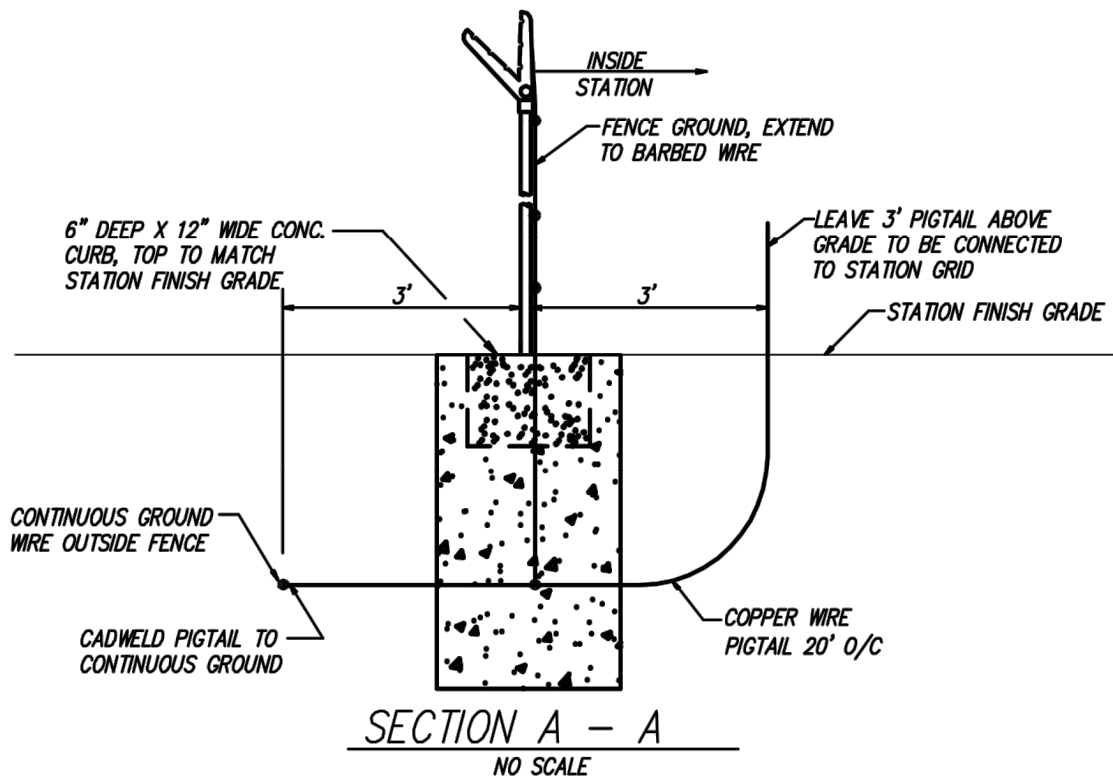
SCALE: 1"=2'

NOTE:  
1) FOR CHAIN LINK FENCE ON TOP OF CONCRETE RETAINING WALL AND GEOGRID RETAINING WALL, SEE STRUCTURAL PLANS FOR FOUNDATION DETAILS.



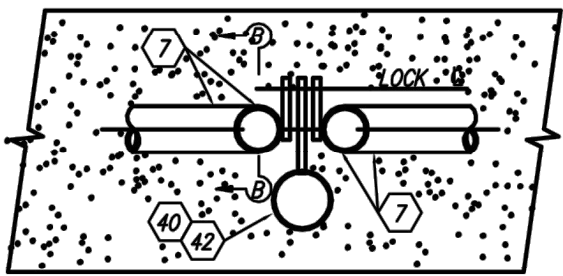
### PLAN

SCALE: 1"=2'



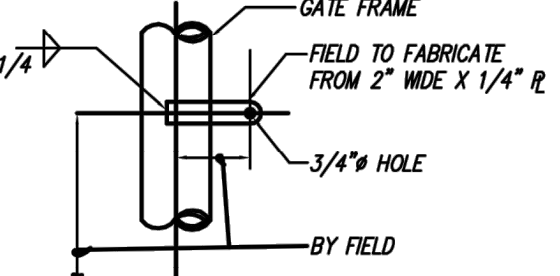
### SECTION A - A

NO SCALE



### DETAIL 4--LOCK PLATE DETAIL

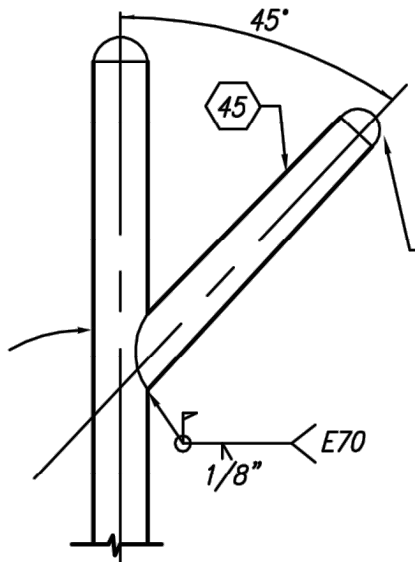
NO SCALE



### SECTION B - B

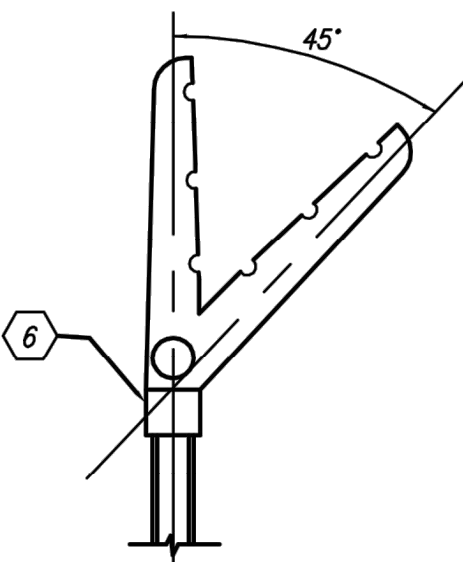
NO SCALE

4" STD. PIPE FOR POST  
GATE AND CORNER OR  
2" O.D. PIPE FOR GATE



### DETAIL 2 CORNER POST TOP

NTS



### DETAIL 3 LINE POST TOP

NTS

TYPICAL SDG&E STANDARD SWING GATE AND FENCE DETAIL



## Westwood

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Westwood Professional Services, Inc.

California License Number: 75322

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Drawn:	
Record Drawing by/date:	
Revisions:	

Prepared for:



11455 El Camino Real, Suite 160  
San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

**Boulder Brush  
Facilities**  
San Diego County, California

Fence Details

**NOT FOR CONSTRUCTION**

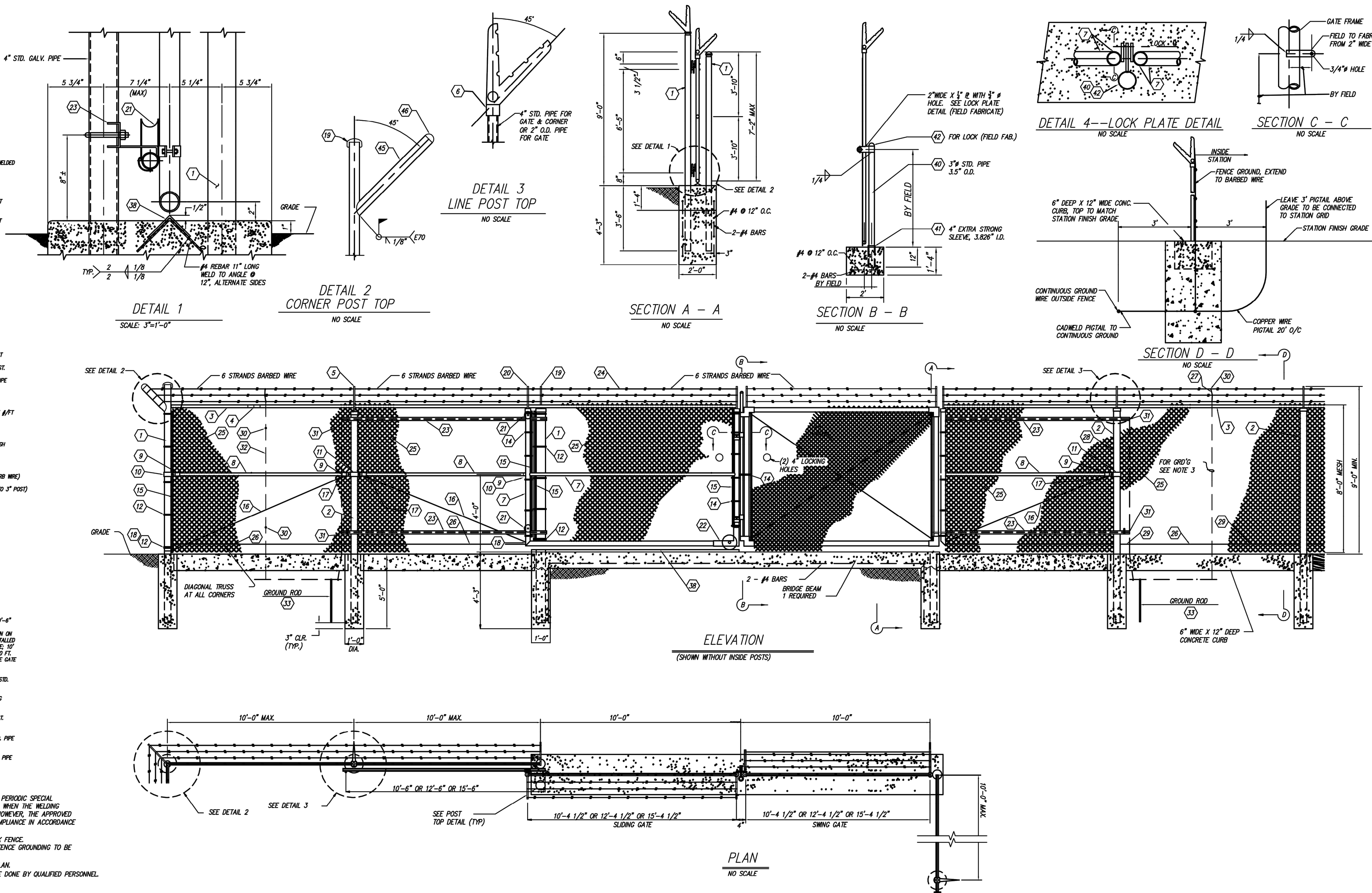
Date: 12/05/2019

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### BILL OF MATERIALS

- 1 POST-GATE & CORNER, 15'-0" LONG, GALV. STEEL,  
4" STANDARD PIPE @ 10.79 #/FT, 4.5" O.D.
- 2 POST-LINE, 14'-0" LONG, GALV. STEEL, 3" STD.  
PIPE @ 7.58 #/FT, 3.5" O.D.
- 3 RAIL-TOP, 20'-0" LONG, GALV. STEEL 1 5/8"  
O.D. @ 2.27 #/FT.
- 4 COUPLER-HALF-OUTSIDE SLEEVE FOR 1 5/8" O.D.  
PIPE GALV. STEEL 7" LONG
- 5 ARM-BARB WIRE 12" LONG PRESSED STEEL, VERTICAL  
TO FIT 3" STD. POST WITH 1 5/8" RAIL HOLE.
- 6 LINE & CORNER POST TERMINAL CAPS WITH TWO 12"  
LONG BAYONETS - ONE VERTICAL & ONE @ 45
- 7 RAIL-FRAME FOR GATES 2" O.D. @ 2.72 #/FT. WELDED  
GALV. STEEL (FABRICATE)
- 8 RAIL-BRACE, GALV. STEEL 1 5/8" O.D. @ 2.87 #/FT. WELDED  
20" LONG.
- 9 RAIL-END, OFFSET LING, GALV. STEEL, TO FIT  
1 5/8" O.D. RAIL.
- 10 BRACE-BAND-GALV. STEEL 1/8 X 1" FOR 4" STD. POST  
WITH 5/16 X 1 1/4" CARRIAGE BOLT.
- 11 BRACE-BAND-GALV. STEEL 1/8 X 1" FOR 3" STD. POST  
WITH 5/16 X 1 1/4" CARRIAGE BOLT.
- 12 TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 3" STD.  
POST WITH 5/16 X 1 1/4" CARRIAGE BOLT.
- 13 TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 2" O.D.  
POST WITH 5/16 X 1 1/4" CARRIAGE BOLT.
- 14 TENSION-BAND-GALV. STEEL 1/8 X 1" FOR 2" O.D.  
POST WITH 5/16 X 1 1/4" CARRIAGE BOLT.
- 15 TENSION-BAND-GALV. STEEL FLAT 1/4 X 3/4 X 96"  
DIA. X 10'-0"
- 16 TRUSS-ROD-ROUND-THREADED GALV. STEEL 3/8"  
DIA. X 10'-0"
- 17 TRUSS-TIGHTENER-GALV. STEEL
- 18 TRUSS-HOOK BOLT-GALV. STEEL 7/16 X 5" THREADED.
- 19 TERMINAL TOP-DOME-GALV. STEEL TO FIT 4" STD. POST
- 20 TERMINAL TOP-DOME, GALV. STEEL, TO FIT 2" O.D. POST.
- 21 WHEEL SAFETY PIPE TRACK WITH CLAMP FOR 2" O.D. PIPE
- 22 GATE WHEEL, SINGLE CARRIER, WELDED ON TYPE WITH  
6" V GROOVE WHEEL.
- 23 TRACK-GATE GUIDE-GALV. STEEL, 2" O.D. PIPE @ 2.27 #/FT  
WITH PIPE TRACK BRACKETS WITH U-BOLTS
- 24 WIRE-BARRED-GALV. STEEL 12 1/2 GA-4 POINT.
- 25 FABRIC-CHAINLINK-GALV. #9 GA. WIRE, 2" SQUARE MESH
- 26 WIRE-TENSION GALV. STEEL ANNEALED #6 GA.
- 27 HOOK-TEE-GALV. STEEL 12 GA 13 1/2" LONG (FOR BARB WIRE)
- 28 HOOK-TEE-GALV. STEEL 12 GA 6 1/2" LONG (FABRIC TO 3" POST)
- 29 RING-HOOD-GALV. STEEL #10 GA 1 9/16" LONG.
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED
- 33 NOT USED
- 34 NOT USED
- 35 NOT USED
- 36 NOT USED
- 37 NOT USED
- 38 GUIDE-GATE WHEEL-GALV. STEEL-L 3 X 3 X 1/4 X 20'-6"  
(EMBED IN CONCRETE)
- 39 ELECTRIC SUBSTATION FENCE OR WALL SIGNS AS SHOWN ON  
CONSTRUCTION DETAILS - SIGNS EDC-2400 TO BE INSTALLED  
AS FOLLOWS: SIGN DETAIL #4 ABOVE #6 ON EACH GATE, 10'  
DISTANCE EACH WAY FROM ANY CORNER AND EVERY 50 FT.  
MAX. ALONG ANY FENCE RUN. DETAIL #6 SIGN ON ONE GATE  
ONLY. ALL SIGNS TO BE AT EYE LEVEL.
- 40 CENTER SUPPORT POST 5'-0" LONG, GALV. STEEL, 3" STD.  
PIPE AT 7.58 #/FT.
- 41 PIPE SLEEVE 12" LONG, GALV. STEEL, 4" EXTRA STRONG  
PIPE AT 14.98 #/FT.
- 42 TERMINAL TOP-DOME, GALV. STEEL TO FIT 3" O.D. POST.
- 43 CORNER BAYONETS, 12" LONG GALV. STEEL 1 1/2" STD. PIPE
- 44 TERMINAL TOP-DOME, GALV. STEEL TO FIT 1 1/2" STD. PIPE

- NOTES:
1. WELDS IDENTIFIED AS REQUIRING CONTINUOUS OR PERIODIC SPECIAL  
INSPECTION NEED NOT HAVE SPECIAL INSPECTION WHEN THE WELDING  
IS DONE IN AN APPROVED FABRICATORS SHOP. HOWEVER, THE APPROVED  
FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE  
WITH UBC SECTION 306 (1).
  2. THERE IS NO FIELD WELDING ON THIS CHAIN LINK FENCE.
  3. GROUNDING GRID INSIDE FENCE PERIMETER AND FENCE GROUNDING TO BE  
DONE BY BELOW GRADE CONTRACTOR.
  4. ALL GROUND WIRES PER STATION GROUNDING PLAN.
  5. ALL EXOTHERMIC WELDING (CAD WELDING) TO BE DONE BY QUALIFIED PERSONNEL.



TYPICAL SDG&E STANDARD SLIDE/SWING GATE AND FENCE DETAIL







# Westwood

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11455 El Camino Real, Suite 160  
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MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001

## Boulder Brush Facilities

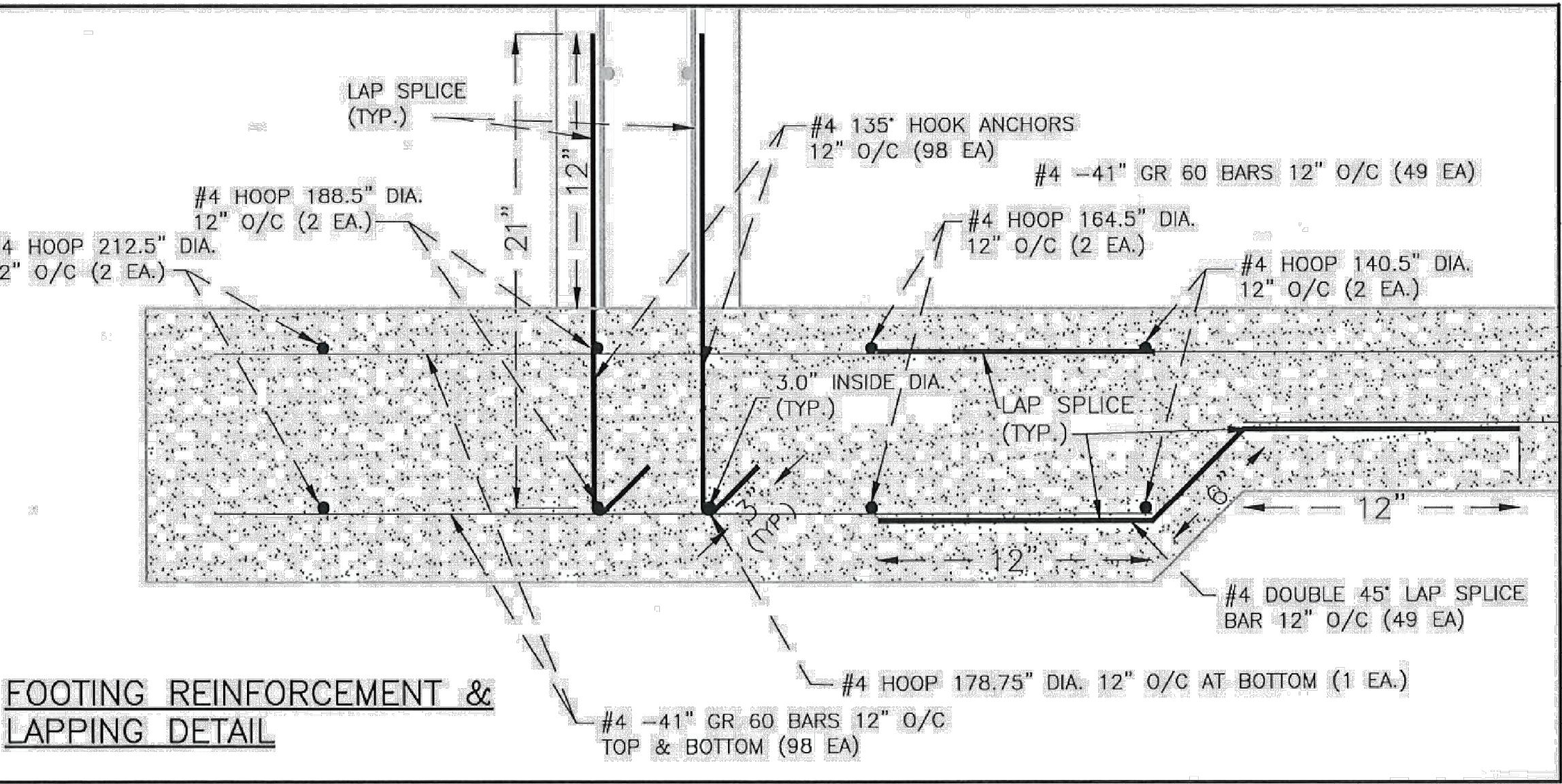
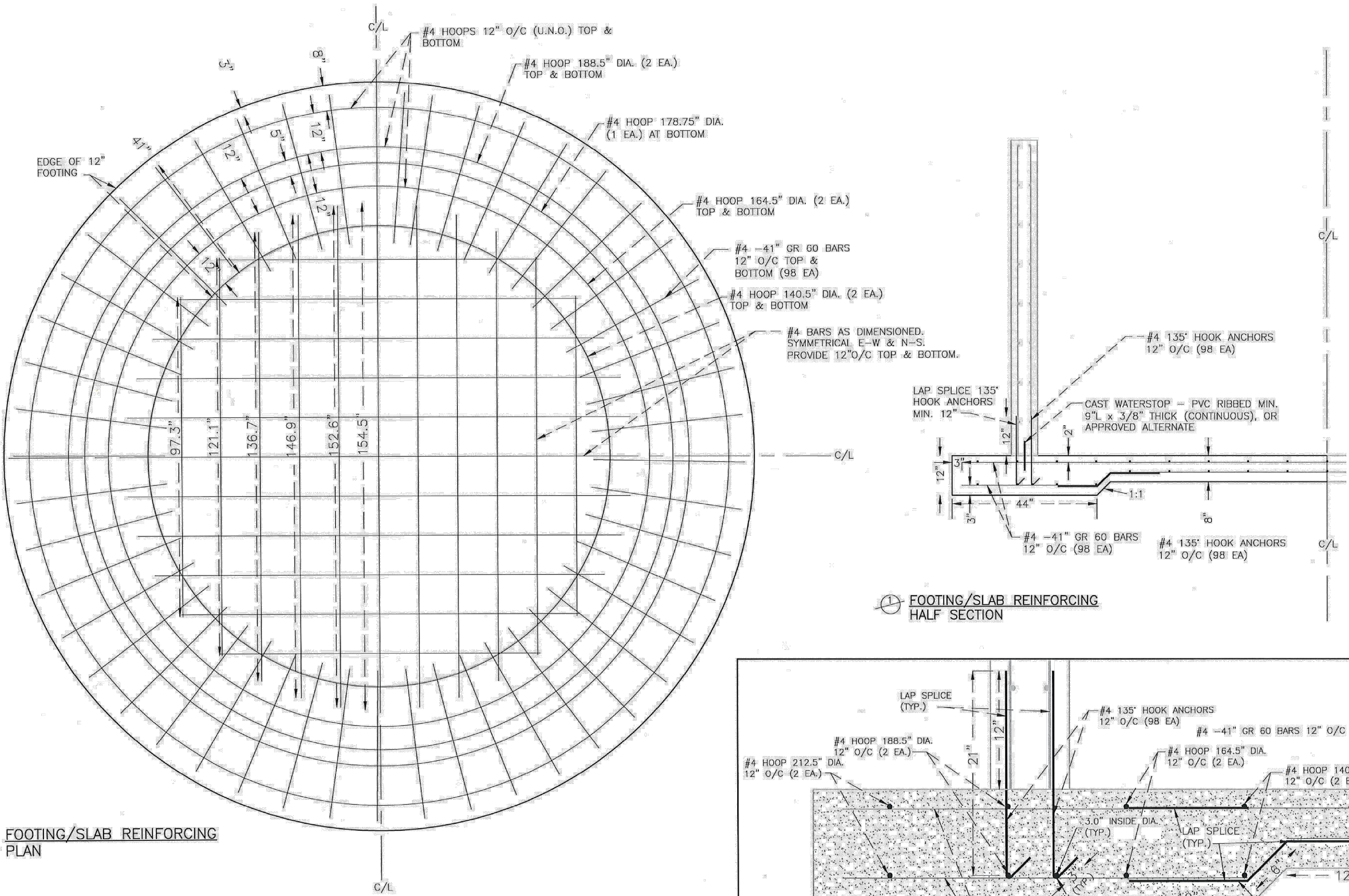
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### Fire Water Tank Details

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Sheet: 24 OF 27





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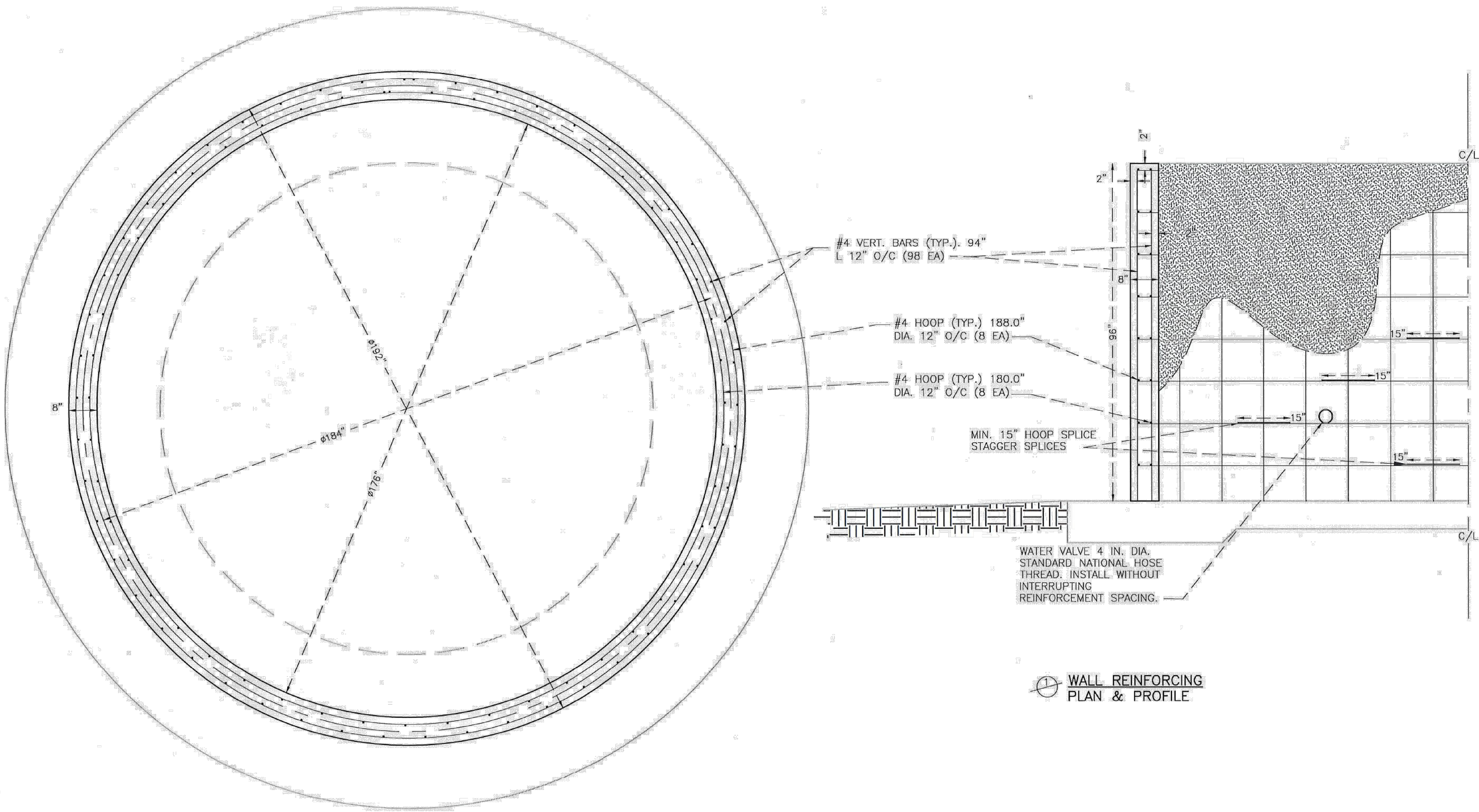
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MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
PDS2019-ER-19-16-001



WALL REINFORCING  
PLAN & PROFILE

NOTES

1. ALL STEEL REINFORCEMENT SHALL BE GRADE 60.
2. PRIOR TO STEEL PROCUREMENT, ENGINEER SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE.
3. WATERSTOP MATERIAL SHALL BE REVIEWED THE ENGINEER PRIOR TO PROCUREMENT.
4. WATERSTOP SHALL BE CAST WITH THE FOOTING DURING FINAL FINISHING.

Boulder Brush  
Facilities  
San Diego County, California

Fire Water Tank  
Details

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Date: 12/05/2019

Sheet: 25 OF 27



# Westwood

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Record Drawing by/date: \_\_\_\_\_  
Revisions: \_\_\_\_\_  
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\_\_\_\_\_

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San Diego, CA 92130

MAJOR USE PERMIT  
CASE NO. 19-002  
ENVIRONMENTAL LOT NO.  
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## Boulder Brush Facilities

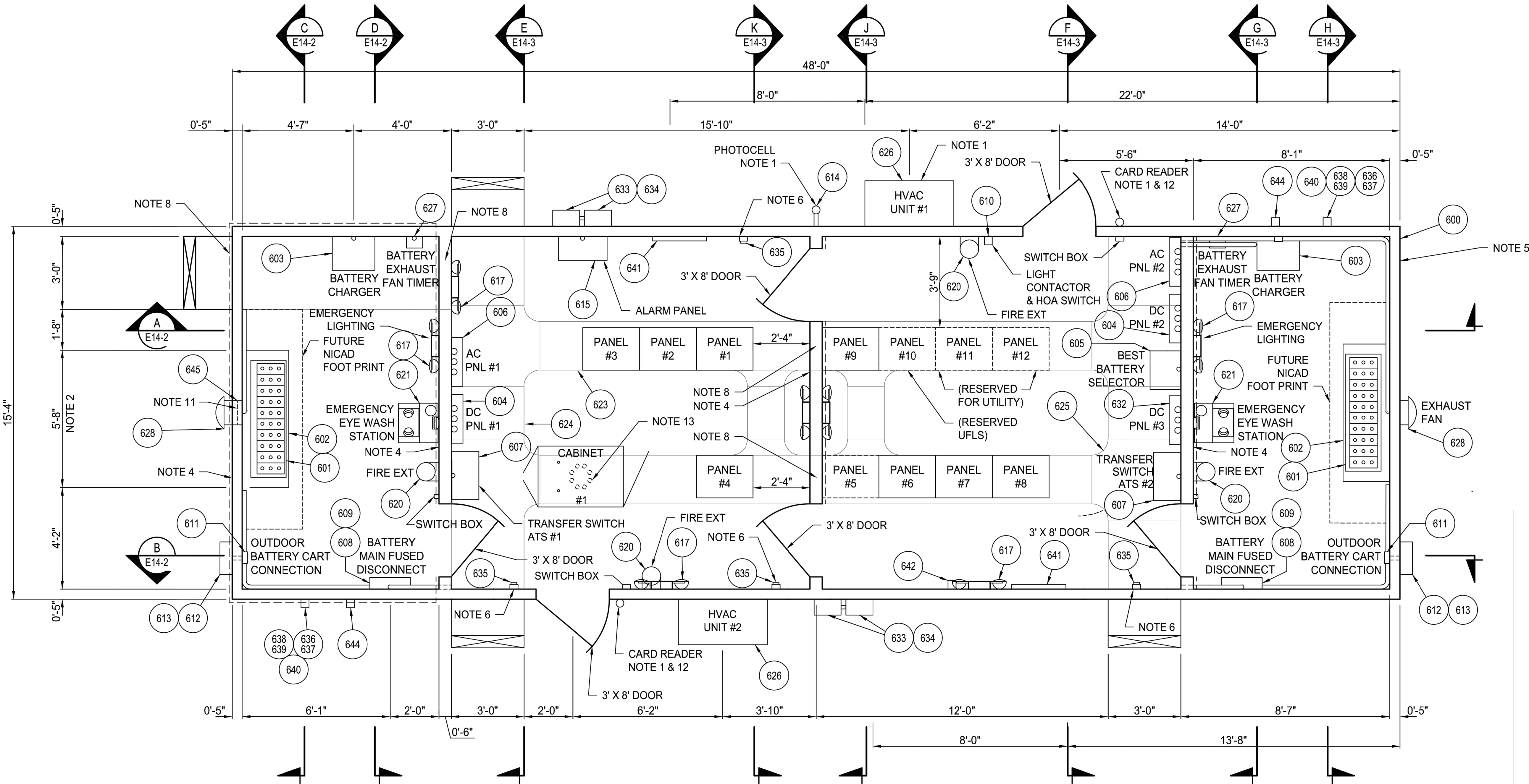
San Diego County, California

Control Building Details  
(Typ.)

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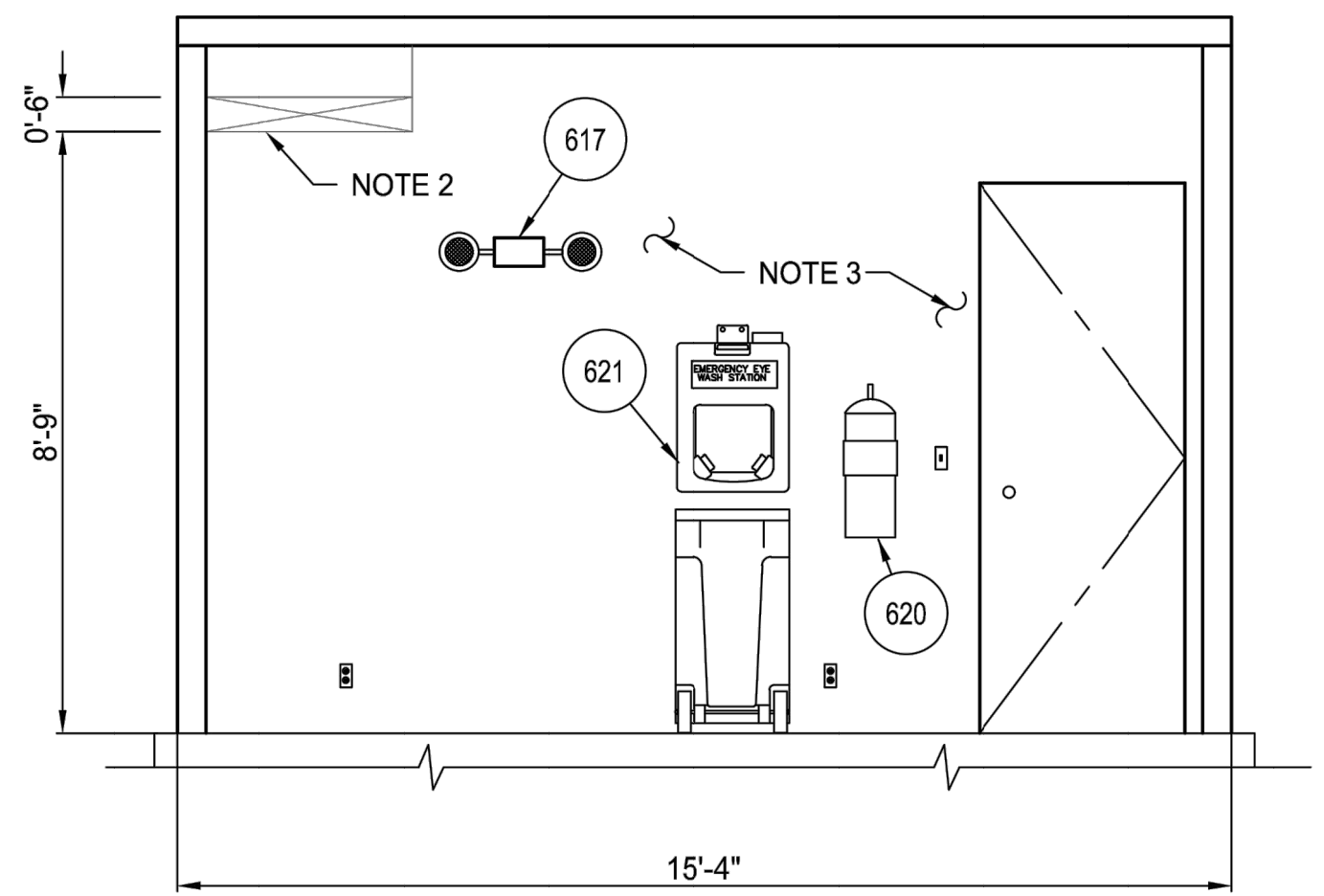
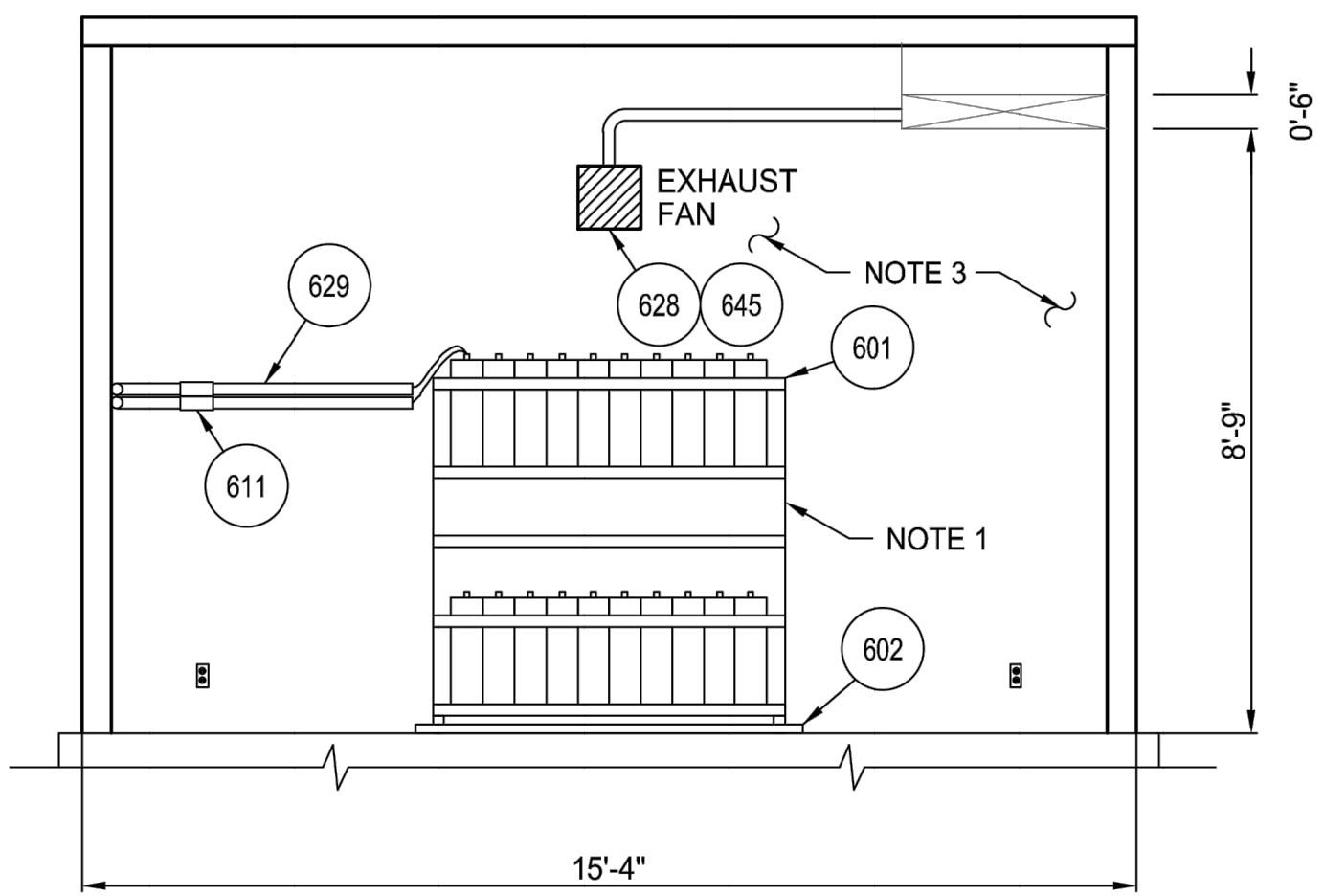
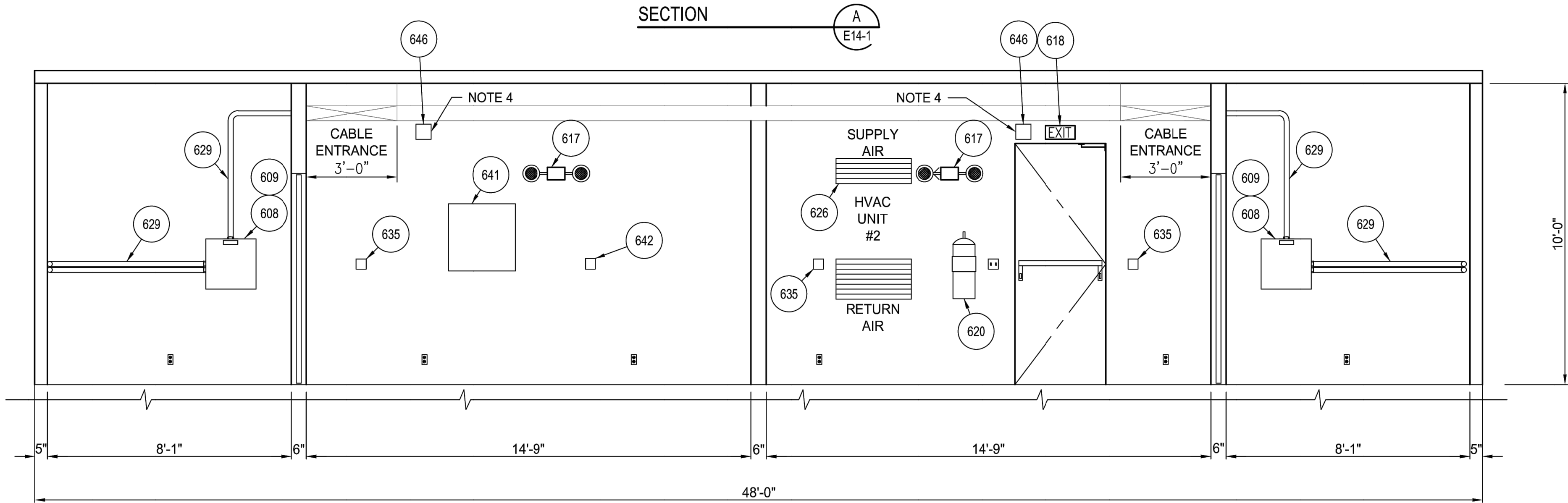
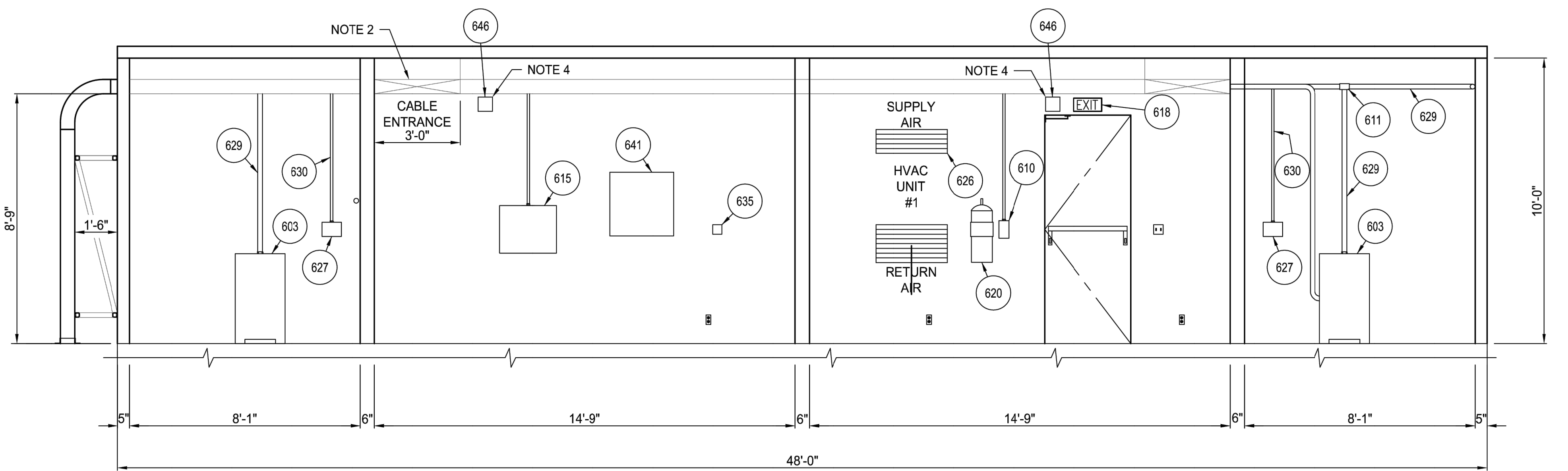
Date: 12/05/2019

Sheet: 26 OF 27



- NOTES:
1. SUBSTATION DETAILS CREATED BY POWER ENGINEERS, INC.
  2. FLOOR PLAN IS TYPICAL AND APPLYS TO SUBSTATION AND SWITCHYARD.





- NOTES:
1. SUBSTATION DETAILS CREATED BY POWER ENGINEERS, INC.
  2. SECTIONS ARE TYPICAL AND APPLY TO SUBSTATION AND SWITCHYARD.

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## Boulder Brush Facilities

San Diego County, California

Control Building Details  
(Typ.)

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Sheet: 27 OF 27